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REPORTS

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Oil Conservation Division
Environmental Bureau

BNC Environmental Services, Inc.

SITE CLOSURE REPORT

**EXXONMOBIL PIPELINE COMPANY
JAY ANTHONY SITE
LEA COUNTY, NEW MEXICO**

**Southwest Quarter of Section 25, T-25-S, R-36-E,
Lea County, New Mexico**

March 10, 2004

Volume I

ExxonMobil
Refining & Supply Company
1001 Wampanoag Trail
Riverside, Rhode Island 02915

18 March 2004

New Mexico Oil Conservation Division
District 1
1625 N. French Drive
Hobbs, New Mexico 88240
ATTN: Mr. Larry Johnson

New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis
Santa Fe, New Mexico 87505
ATTN: Mr. Roger Anderson

**RE: Former Humble Pipe Line Company
Pump Station
SW Corner Section 25, T-25-S, R-36-E
Lea County, New Mexico**

Dear Gentlemen:

I am writing on behalf of ExxonMobil Pipeline Company (EMPCo). Attached for your review is a copy of the "Site Closure Report" for the above noted location, prepared by BNC Environmental Services, and dated 10 March 2004.

ExxonMobil believes that we have satisfied the requirement of your Department and its regulations and is requesting the Department to issue a "No Further Action" or "Closure" letter. If there are any questions or comments, please contact me at 401.434.7358 or via E-Mail at "michael.a.lamarre@exxonmobil.com".

Sincerely,



Michael A. Lamarre
Project Manager

cc: T. Larson, BNC, Midland

ExxonMobil
Refining & Supply

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Environmental Bureau



BNC Environmental Services, Inc.

AUSTIN ■ DALLAS ■ HOUSTON ■ MIDLAND ■ NEW MEXICO ■ OKLAHOMA

SITE CLOSURE REPORT

EXXONMOBIL PIPELINE COMPANY JAY ANTHONY SITE LEA COUNTY, NEW MEXICO

Southwest Quarter of Section 25, T-25-S, R-36-E,
Lea County, New Mexico

PREPARED FOR:

Mr. Michael Lamarre
EXXONMOBIL REFINING AND SUPPLY
GLOBAL REMEDIATION
1001 Wampanoag Trail
Riverside, Rhode Island 02815

PREPARED BY:

BNC Environmental Services, Inc.
2135 S. Loop 250 West
Midland, Texas 79703

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Ricky Carrizales, Field Manager


Craig Eschberger, Project Manager


Tom Larson, Senior Project Manager

BNC Job No. H07-2
Volume I

March 10, 2004

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FIGURES

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FIGURE 2	Site Details
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TABLES

TABLE I	Excavation & Staged Soils-Confirmation Sampling Analytical Results
TABLE II	Waste Characterization Analytical Results

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APPENDIX A	Site Chronology
APPENDIX B	Laboratory Analytical Reports
APPENDIX C	Form C-138 Request for Approval to Accept Solid Waste and Certificate of Waste Status
APPENDIX D	Non-Hazardous Waste Transport Manifests (Volume II)

The Jay Anthony Site is located approximately two miles southwest of Jal, New Mexico in the southwest quarter of Section 25, T-25-S, R-36-E, Lea County, New Mexico (FIGURE 1). The property is owned by Mr. Jay Anthony and consists of approximately 2.63 acres which was the former location of a Humble Pipeline Company (HPCo) crude oil storage facility that operated in the late 1930s to mid 1940s (hereafter referred to as the "Site"). The site was divided into two tracts of land, designated as lease A and lease B, that HPCo leased from Naomi Humphres, the landowner at that time. The leases were terminated in 1945 and 1946 and the facilities were removed prior to lease expiration. In 2002, Mr. Anthony requested that ExxonMobil Pipeline Company (EMPCo) perform restoration activities at the site consisting of removal of hydrocarbon affected surface/subsurface soils, and concrete foundations/slabs associated with operation of the former HPCo storage facility. Additionally, Mr. Anthony requested that the excavated soils be transported off his property, the resulting excavation backfilled with clean soils and the construction affected area restored with native grass cover.

A document entitled "Soil Assessment Report and Remedial Workplan - Jay Anthony Site, Lea County, New Mexico" dated May 30, 2003 was prepared by BNC Environmental Services, Inc. (BNC) on behalf of EMPCo. The document was submitted to the New Mexico Energy, Minerals And Natural Resources Oil Conservation Division (NMOCD) and Mr. Jay Anthony for review on October 2, 2003. The document presented the findings of soil assessment activities (soil boring program) conducted by BNC in January 2003 and proposed a remedial workplan to address remedial actions requested by Mr. Anthony and also comply with the State of New Mexico site specific clean up criteria for soils contaminated by crude oil. The remedial workplan presented site preparation activities, an excavation plan, soil staging and hauling activities, confirmation soil sampling plan, waste management activities, site restoration activities, and proposed a site closure report to document the proposed work. Workplan activities were approved by Mr. Anthony. However, a response to BNC from the NMOCD was not obtained after contacting the Hobbs NMOCD office on October 9 and 13, 2003. Site preparation activities commenced on October 20, 2003. The Hobbs NMOCD office was contacted again on October 27, 2003 for regulatory comments on the remedial workplan and request that the NMOCD conduct a site visit. However, a response from the NMOCD was not obtained by BNC at that time.

This Site Closure Report has been prepared for ExxonMobil Refining and Supply, Global Remediation (EMGR) to document remedial activities performed at the Site between October 20, 2003 and December 12, 2003 and present the findings of the remedial activities. This work was performed in accordance to the Soil Assessment Report and Remedial Workplan that was submitted to the NMOCD and the landowner. The work was performed under the constant surveillance of Mr. Anthony. Consequently, additional activities were performed to complete the soil remediation and site restoration activities to the satisfaction of the landowner. The results of these remedial activities indicate that the site is eligible for closure in accordance with the applicable NMOCD guidelines. No further action is recommended or planned for this site.

SECTION II

REGULATORY FRAMEWORK

The State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division (NMOCD) has regulatory jurisdiction over oil and gas production operations including crude oil pipeline spills and associated closure activities in the State of New Mexico. Soil assessment and remedial activities should be conducted under the regulatory guidance of the NMOCD, which requires that soil affected by a crude oil spill be remediated in such a manner that the potential for future affects to groundwater or the environment are minimized. The NMOCD cleanup levels are determined on a site-by-site basis and are based on ranking criteria that is outlined in the NMOCD "Guidelines for Remediation of Spills, Leaks, and Releases" dated August 13, 1993. These ranking criteria guidelines are based on the following site characteristics: depth to groundwater, wellhead protection (useable water sources), and distance to surface water.

BNC searched the New Mexico Office of the State Engineer's groundwater data base for depth to groundwater data in the vicinity of the site. No records were available within a one mile radius search of the site. However, an onsite and currently inactive groundwater supply well originally pumped by a windmill is located within 200 feet of the area of concern. Depth to groundwater in this well was reported by Mr. Anthony to be in excess of 100 feet below ground surface (bgs). There is no evidence of surface waters present within 1000 feet of the site. FIGURE 1 presents the site location and surrounding area on the attached Jal Quadrangle, Lea County, New Mexico U.S.G.S. topographic map.

The table below illustrates the criteria for site-specific characteristics used by the NMOCD and the ranking score for the Site:

CHARACTERISTIC	SELECTION	SCORE
Depth to Groundwater	> 50 feet	0
Wellhead Protection Area	<1000 feet	20
Distance to Surface Water	>1000 feet	0

Total Ranking Score = 20

Based on the presence of the onsite water supply well (well head protection criteria), the ranking score attributed to the site is greater than 19. Consequently, the ranking criteria soil cleanup levels of 10 mg/Kg benzene, 50 mg/Kg total Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) and 100 mg/Kg Total Petroleum Hydrocarbons (TPH) would apply for remedial and closure activities at the site.

SECTION III

SOIL REMEDIATION ACTIVITIES

A detailed site chronology of the soil remediation activities performed between October 20 and December 12, 2003 is included in APPENDIX A.

HEALTH AND SAFETY

A site specific Safety and Health Plan (SSSHP) was developed by BNC and approved by EMGR prior to conducting soil excavation, transport and backfilling activities. Safety and health issues associated with this project included working around excavations, heavy equipment, hydrocarbon-affected soils, and crude oil pipelines. The BNC project manager implemented the SSSHP in the field. Tailgate safety meetings were implemented each morning prior to beginning work activities and as appropriate, in accordance with SSSHP objectives.

In addition to SSSHP tasks, site work was performed in accordance to EMGR Operations and Integrity Management System (OIMS) requirements. OIMS requirements included: project start notification, contractor orientation meetings, pre-start safety review, and job safety analysis (JSA) form completion, and completion of waste shipment documentation forms.

BNC was responsible for utility notification and lockout/tagout of any electrical energy sources associated with site work. The work area included an active below ground crude oil pipeline operated by Enron Oil Transportation and Trading Company (EOTT). Based on conversations with EOTT personnel, BNC installed a road with an estimated five feet of soil cover over the subsurface pipeline. Equipment and transport traffic was restricted to this crossing during construction activities. EOTT was contacted periodically during remedial activities to facilitate safe working conditions around the crude oil pipeline.

SITE PREPARATION

Several site preparation activities were performed prior to the excavation of hydrocarbon affected soils and concrete removal activities. On October 20, 2003, upon notification to proceed with remedial workplan activities by EMGR, BNC mobilized heavy equipment to the Site and initiated site preparation activities.

On October 21, 2003, BNC began construction of an east-west caliche access road (FIGURE 1) to facilitate the movement of heavy equipment for the proposed remedial activities. The road was built by transporting approximately 2,130 cubic yards (cy) of caliche obtained from a borrow pit owned by Mr. Jay Anthony (FIGURE 1). The road, approximately one-half mile in length, was approved by and is situated on property owned by Mr. Anthony. A turnout roadway was constructed near the midpoint of the access road to mitigate traffic congestion. Where the road crossed the EOTT pipeline right of way (ROW), an additional two feet of caliche was mounded and compacted over the pipeline, resulting in EOTT's recommended 5 feet of cover. A circle drive was installed at the end of the caliche road to provide an area for truck loading and unloading activities. Road building activities were completed on October 27, 2003. FIGURE 2 displays the access road, circle drive, soil loading stockpile, truck loading area other site features.

Additional site preparation activities included mesquite and brush removal from the work areas and leveling off and staging sand mound material from the excavation areas. Grubbed

mesquite and brush was staged at a location east of the EOTT ROW and south of the concrete slabs. The brush stockpile was ultimately moved to a clear area by Mr. Anthony and burned. The sand mound material was stockpiled along the EOTT ROW just west of the pipeline and within the loop of the access road circle drive and soil samples analyzed for future use as backfill material. The sand mound stockpiles are identified as B-Top NSP, B-Top SSP, Loop-SPW and Loop-SPE. Clean soil scraped up as a result of access road building activities was also staged at the site for future use as backfill material. This soil was stockpiled on site and identified as CSP-West and CSP-East. Soil samples from the six stockpiles were also submitted for laboratory analyses. FIGURE 2 displays the areas used to stage the sand mound and road building stockpiles and nomenclature used for soil sample identification. TABLE I presents the analytical results of the soil stockpile sampling to exhibit hydrocarbon concentrations below NMOCD remediation guidelines.

As outlined in the Remedial Workplan and FIGURE 2, excavation work was proposed in three distinct areas. Approximately 1.2 acres of hydrocarbon affected soils located west of the EOTT ROW were divided into two areas designated as Remedial Excavation A (RE-A) and Remedial Excavation B (RE-B) areas. The RE-A area was defined as the west half of the hydrocarbon affected area and consisted of grid cells A, B, E, F, I, J, M, N, Q, R and U. An asphaltic ring area, located in the southern half of the RE-A area, was identified as the primary area for proposed excavation activities. A second and less pronounced surficial ring scar, located in the northern portion of the RE-A area, was also targeted for excavation activities. The RE-A area had been identified from soil boring data to contain hydrocarbon affected soils to depths ranging from the surface to at least four feet below ground surface (bgs). The RE-B area consisted of the eastern half of the hydrocarbon affected area and included grid cells C, D, G, H, K, L, O, P, S and T. The RE-B area had been assessed to contain relatively shallower impacts of hydrocarbon affected soils ranging in depths from the surface to approximately one foot bgs. Remedial Excavation C (RE-C) consists of lands located east of the EOTT ROW. The area was targeted for concrete removal and surface grading based on previous conversations with Mr. Anthony.

EXCAVATION METHODOLOGY

Excavation activities were performed utilizing a Catapillar 325 tracked excavator and a Catapillar D-6 Dozer. The excavator was used to begin excavation activities at the south end (asphaltic ring area) of RE-A. Concurrently, the dozer was used to begin excavation activities in the RE-B area. Excavated soil was staged and stockpiled in the southern portion of RE-B (grid cells S and T), along the north side of the access road (FIGURE 2). From this location excavated soil was loaded to transport trucks for offsite disposal.

As excavation activities progressed, soil samples were periodically collected from the walls and floor areas of the excavations at depths and locations based on the judgment of BNC field personnel to assess the completeness of the soil removal activities. The soil samples were field screened which consisted of visual and olfactory observations as well as head space analysis. Head space analysis consisted of placing the soil sample in a ziplock plastic bag leaving a headspace for volatile organic compounds (VOCs) to collect. After sufficient time had passed to allow for volatilization, the headspace in each bagged sample was measured using a RAE Systems Manufactured UltraRAE Photo ionization Detector (PID) calibrated to a 100-ppm isobutylene standard. Areas exhibiting excessive VOC concentrations and/or visual impacts and/or non-favorable laboratory analytical results were over-excavated and re-sampled until hydrocarbon concentrations were documented by laboratory methods to be below regulatory guidelines. Field screening of soil samples served as an aid in determining excavation limits, however, horizontal and vertical

delineation of excavated areas to regulatory guidelines was ultimately determined by laboratory analyzed confirmation soil samples.

REMEDIAL EXCAVATIONS A AND B

FIGURE 3 displays excavated areas located within the hydrocarbon affected RE-A and RE-B areas as well as confirmation soil sample locations, laboratory derived TPH results and the associated grid cell location overlay. Excavation depths are color coded as defined in the key.

Excavation

Excavation activities in the RE-A and RE-B areas were initiated on October 28, 2003. The tracked excavator was used to begin excavation of affected soil in the asphaltic ring area located in the southern half of the RE-A area. Concurrently, the dozer was used to begin excavation activities in the projected shallow RE-B excavation area. As excavation of the southern asphaltic ring area continued, the bulldozer was used to excavate the upper two feet of soil in the RE-B area and ultimately the upper three feet of soils located north of the southern asphaltic ring area. Subsequent to lowering the elevation of the RE-A and RE-B areas, further excavation was conducted within specific areas where hydrocarbon staining was observed at the lowered ground surface.

Excavation of specific areas located in the RE-A area included targeted locations proposed in the Remedial Workplan. Targeted excavation areas included the south asphaltic ring area, a small area identified as grid cell U (south of grid cell R), in which the upper 1.5 feet of surficial asphaltic staining was removed, and a northern ring scar area located in grid cells, A, B, C, F and G that was excavated to a depth of approximately four feet bgs. An area located in grid cells F and J was excavated to a depth of approximately 4.5 feet bgs and an area measuring approximately 75 feet by 50 feet, located south of grid cell Q (southwest corner of RE-A), was excavated to a depth of four feet bgs.

The south ring area in RE-A required several confirmation sampling and over-excavation events to obtain results below NMOCD remediation limits. Final confirmation sample depths ranged from eight to 12 feet bgs in the northwest portion to 18 to 20 feet bgs in the southeast portion. Excavation to these depths was unexpected (based on analytical results of the initial soil assessment) and required benching and sloping of the excavation walls.

No specific areas located within the RE-B area were originally targeted for excavation deeper than two feet bgs. However, soil staining was observed at the lowered ground surface in a grid cells G and H (RE-B area). This area was excavated to an ultimate depth of eight feet bgs.

Confirmation soil samples were obtained as excavation activities progressed. Excavation activities for individual 50 feet by 50 feet grid cell areas were completed based on favorable analytical results and field observations. Excavation activities in the RE-A and RE-B areas were completed on November 20, 2003 after analytical results from the final soil sampling event indicated that all grid area sample locations (including over-excavation areas) exhibited BTEX and TPH concentrations below regulatory guidelines.

Soil Loading and Transportation

Hydrocarbon affected soils removed from the RE-A and RE-B areas were staged just north of the access road in grid cells S and T. Transport trucks capable of hauling approximately 14 to 21 cubic yards (cy) entered the site from the east and used the south leg of the circle drive to swing around to the loading area and exit the site to the east (FIGURE 2). Transport of hydrocarbon affected soil began on October 28, 2003 and was completed on December 5, 2003. An average of approximately 8 trucks worked each day hauling excavated soils from the site to J&L Landfarm, located in Hobbs, New Mexico for offsite disposal/treatment (See Section IV - Waste Management). The trucks averaged 5 round trips per day.

A Non-Hazardous Waste Transport Manifest accompanied each load which included information such as the name, address and phone number of the generator, name and address of the generating location, quantity and type of material being hauled, transporters name, address and phone number, the drivers name, state transporter's ID number and the name, address and phone number of the destination location. The manifests were signed and dated by BNC's construction manager (on behalf of EMGR) and the truck driver when leaving the site. An agent of J&L Landfarm signed the manifest as the load was received at the destination location.

Confirmation Sampling and Analytical Results

Confirmation soil samples were delivered to Southern Petroleum Laboratories in Houston, Texas (SPL) for TPH analysis by EPA Method 8015 (modified) for Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) as required by NMOCD. Additionally, each soil sample was analyzed for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) EPA Method 8021B as required by NMOCD per the ranking described previously in this document. Each 4-ounce container was labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F (4°C). The cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation accompanied the samples to the laboratory. All samples were analyzed within the appropriate holding times for the respective analysis.

FIGURE 3 displays the location of confirmation soil samples obtained from the RE-A and RE-B areas as well as displaying the total TPH concentrations (GRO + DRO). TABLE I presents the BTEX and TPH analytical results of all confirmation soil samples collected and denotes soil samples that exhibited TPH concentrations above the regulatory guidelines of 100 mg/Kg with yellow highlighting. Highlighted soil samples are followed by a confirmation soil sample collected from the same area after over-excavation of the original area. Copies of the SPL certified analytical reports for the BTEX and TPH analyses of confirmation soil samples are provided in APPENDIX B. As demonstrated in the soil boring program, BTEX concentrations from the excavation confirmation sampling also exhibited concentrations well below (typically below laboratory detection limits) NMOCD remediation guidelines. The labeling or identification of confirmation soil samples typically consist of the individual samples grid cell location, followed by the depth bgs the sample was obtained (e.g. K-1.5'). Soil samples collected from an excavation wall are typically identified by the compass direction of the excavation wall and grid cell location followed by the depth on the wall the sample was collected (e.g. S Wall Q-3').

The Remedial Workplan submitted to the NMOCD and Mr. Jay Anthony, proposed that 20 floor and 8 wall confirmation soil samples from the RE-A area and 12 floor confirmation soil

samples from the RE-B area and U grid cell be submitted for laboratory analyses. Soil samples from excavated areas were submitted to the laboratory as excavation activities progressed. A minimum of one confirmation soil sample per each grid cell (50 feet by 50 feet area) was collected and used to confirm that hydrocarbon affected soils were removed from the targeted excavation areas. A total of 55 confirmation soil samples were ultimately obtained from the RE-A and RE-B areas and analyzed by laboratory methods. Ten of these soil samples were collected in areas where the analytical results of a previous soil sample exhibited hydrocarbon concentrations above the regulatory requirements, thus targeting areas to be over-excavated. Twenty of the confirmation soil samples were obtained from the walls of excavated areas within the overall hydrocarbon affected area, west of the EOTT ROW. Additional confirmation soil samples were collected from the sand mound leveling and road building stockpile areas and submitted for laboratory analyses. These samples were identified as Loop SP-W, Loop SP-E, B-Top-NSP, B-Top-SSP, CSP West and CSP East. Analytical results indicated these stockpiled materials exhibited hydrocarbon concentrations below regulatory guidelines and were suitable for use as backfill material. FIGURE 2 displays the location and identification of soil samples collected from these stockpiles.

The exact location of confirmation soil samples was determined by BNC's field geologist to be most representative of the immediate area. Confirmation sampling activities were routinely discussed with Mr. Anthony, including inspection of field sketches showing confirmation soil sample locations, analytical results, as well as on site visual inspection of the excavated areas.

Ultimately, all final confirmation sample area locations exhibited BTEX and TPH concentrations below NMOCD remediation guideline levels.

Backfilling

As proposed in the Remedial Workplan, staged material exhibiting hydrocarbon concentrations below NMOCD remediation levels, would initially be utilized to backfill the selected portions of the RE-A area. The balance of material needed for raising the RE-A and RE-B areas back to original base surface elevation consisted of imported soils. Imported soils were comprised of soils obtained from a borrow area located near the Jay Anthony Ranch House (FIGURE 1).

Mr. Anthony approved initial backfilling activities on November 13, 2003 after reviewing analytical results and the sample location map for the site. On November 17, 2003, equipment was mobilized to the backfill borrow pit, located near the Anthony ranch house and was used to excavate and stockpile an estimated 8,000 cy of soil that would subsequently be transported to the site and used for backfill. This task was completed on November 20, 2003 and the equipment was mobilized back to the site to resume over-excavation activities in the south ring area. On November 21, 2003, transport trucks began delivering the imported soil to the site. The imported soil was temporarily staged on site pending final approval to backfill the remaining excavated areas (mainly the southern ring area). On November 25, 2003 analytical results for final confirmation soil samples indicated that all excavated areas had now been delineated to below regulatory guidelines. The final analytical results were reviewed with Mr. Anthony and permission was granted to begin full scale backfilling activities. On December 3, 2003 Paul Sheely with the NMOCD Hobbs District Office was on site to perform a walk through inspection of remedial activities. BNC presented the finalized analytical results of all confirmation samples to Mr. Sheely for his

review. Mr. Sheeley indicated that based on the analytical results of the confirmation samples, it was appropriate to continue with backfilling activities. Hauling clean imported soil and backfilling activities associated with the RE-A and RE-B areas was completed on December 5, 2003. All backfill material was compacted using the tracks of the bulldozer.

Ultimately, a total of 10,192 cy of clean soil was imported to the Site from the Anthony borrow pit for backfilling purposes

REMEDIAL EXCAVATION C

The Remedial Excavation C area is located east of the EOTT pipeline (FIGURE 2). As discussed with Mr. Anthony and outlined in the Remedial Workplan, the primary remedial objective for the location was the removal of concrete materials.

Concrete Removal

Activities to remove concrete foundations and pedestals in the RE-C area began on October 28, 2003. FIGURE 2 displays the former location of concrete slabs and pedestals that were removed from the site. A hammer hoe attached to a back hoe was initially utilized to begin breaking the concrete foundations. As this activity progressed, it was discovered that concrete pedestal area, averaging approximately 10 feet by 8 feet by approximately five feet in thickness, existed in the subsurface below the 4-inch concrete slab. The size of the larger concrete pedestal was not anticipated. The backhoe-attached hammer-hoe had little effect on busting out these pedestals and on November 7, 2003 the backhoe machine was replaced with a trackhoe mounted hammer-hoe. As the larger hammer-hoe busted the concrete slabs and pedestals to smaller pieces, the excavator equipped with a thumb attachment assisted in excavation, stockpiling and loading of the busted concrete. The front end loader was also used to load smaller pieces of broken cement. With the approval of Jay Anthony, the majority of busted concrete was loaded in 14 cy dump trucks and transported to a concrete disposal area located on Jay Anthony's property and covered with clean material from the backfill borrow pit (both sites-FIGURE 1). After inspection of the thick concrete pedestals, Mr. Anthony suggested that an area (located in the vicinity of the concrete removal area) be excavated for burial of the larger pieces of concrete. Concrete hauling activities were concluded on November 12, 2003 and the final burial of concrete was completed on November 13, 2003.

Surficial Soil Removal and Backfilling

The RE-C area was not targeted in the Remedial Workplan for hydrocarbon-affected soil removal, as assessment activities indicated relatively minor staining was observed in this portion of the property. At Mr. Anthony's request, soil from these surficial stained areas were removed on November 13, 2003. A second inspection by Mr. Anthony on December 1, 2003, resulted in the removal of several other small areas of surficial stained soil observed in the overall area. The soils were stockpiled at the soil loading area and hauled to J & L Landfarm. Staining in these areas was limited to the upper several inches of the surface.

Backfilling and leveling of the RE-C area was performed concurrent with backfilling activities of the RE-A and RE-B areas. A small portion of the clean imported soil was used in leveling and grading of the RE-C area. Backfilling activities at the site were completed on December 6, 2003.

SITE RESTORATION

Mesquite and other brush removed and staged onsite were transported offsite and later burned by Mr. Anthony. At the request of Mr. Anthony, cotton compost was selected as a seed cover material. Beginning on December 4, 2003, BNC began hauling cotton compost from the Ocho Gin in Seminole, Texas, to the Site where it was temporarily staged. On December 8, 2003, the construction affected area was seeded by Mr. Anthony with a special blend of grass seed approved by Mr. Anthony and was covered with the cotton compost. Seeding and cover activities (quantity and methods) were performed under Mr. Anthony's direction. At the request of Mr. Anthony the eastern portion of the construction affected area was re-seeded on December 11, 2003 and re-covered with cotton compost. Site restoration activities were completed on December 12, 2003 with the last load of compost being spread over the site and the release of heavy equipment and work crews. A total of 312,340 pounds of cotton compost was delivered and spread over the site. Additional tasks performed prior to de-mobilization and as requested by Mr. Anthony included, repair of a cattle guard, additional covering of exported concrete at Anthony disposal pit with clean backfill soil and repairing selected sections of caliche road on the Anthony Ranch.

NMOCD PRE-APPROVAL

The waste management activities documented in this section were originally proposed in the BNC "Soil Assessment Report and Remedial Workplan - Jay Anthony Site, Lea County, New Mexico," dated May 30, 2003, submitted to the NMOCD and Mr. Jay Anthony for approval.

Hydrocarbon-affected soils removed from the site were identified for offsite disposal/treatment at the J&L Landfarm facility located south of Hobbs, New Mexico. J&L currently holds Permit NM-01-0023 from the New Mexico Energy, Minerals and Natural Resources Department – Oil Conservation Division (OCD), to operate a commercial surface waste management facility.

Ms. Martyne J. Kieling with the OCD was contacted by BNC on May 1, 2003 regarding the disposal/treatment of hydrocarbon-affected soils from the Jay Anthony Site at the J&L facility. Information based on existing analytical data collected at the site was presented to Ms. Kieling, informing her of the nature and magnitude of hydrocarbon-affected soils at the site. Included in that conversation were the results of waste characterization sample WC-1 that was collected on February 19, 2003. In a personal communication, Ms. Kieling reported that collection of additional analytical sample from a location at the Site exhibiting asphaltic and dark hydrocarbon stained soil located at the area of the former tank location could be utilized for supplementary waste profiling purposes of soils identified for disposal/treatment at the J&L facility.

Consequently, on May 2, 2003, a second waste characterization soil sample was collected from the former tank location at the Jay Anthony site. The soil sample, identified as WC-2 was submitted to SPL in Houston, Texas for waste profiling analyses. The supplementary analytical suite, as directed by Ms. Kieling, included TCLP RCRA (8) Metals, and TCLP Semi-volatile and Volatile Organics analyses. Review of the waste profile analytical data supports a non-hazardous classification. TABLE II displays the analytical results of WC-1 and WC-2 samples. The SPL certified analytical reports for the TCLP metals, semi-volatile and volatile analyses are attached in APPENDIX B.

The waste materials are further classified as non-exempt waste. As identified on the OCD Request for Approval to Accept Solid Waste Form C-138, the hydrocarbon-affected soils from a crude oil pipeline/pump station release have been analyzed to support a non-hazardous classification. The request for approval to accept solid waste for materials from this project was approved by signatures of representatives of J & L Landfarm and the New Mexico OCD on the C-138 Form dated May 21, 2003. Copies of Form C-138 – Request for Approval to Accept Solid Waste and Certificate of Waste Status are included in APPENDIX C.

SUMMARY

A total of 513 loads of hydrocarbon affected soils were manifested, resulting in a total of 9,765 cy of excavated soil being transported for the Site and received at the J&L Landfarm facility. Copies of the completed Non-Hazardous Waste Transport Manifests (Manifest #1 – #513) are included in APPENDIX D (Volume II).

SECTION V

SUMMARY OF FINDINGS

The following is a summary of findings for this Site Closure Report for the Jay Anthony Site in Lea County, New Mexico:

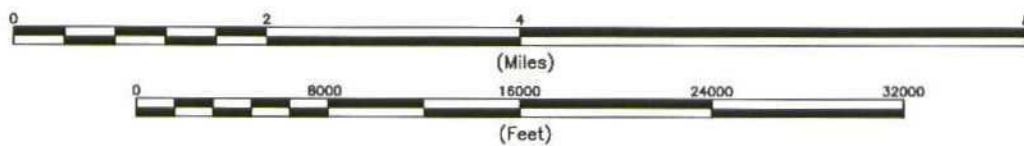
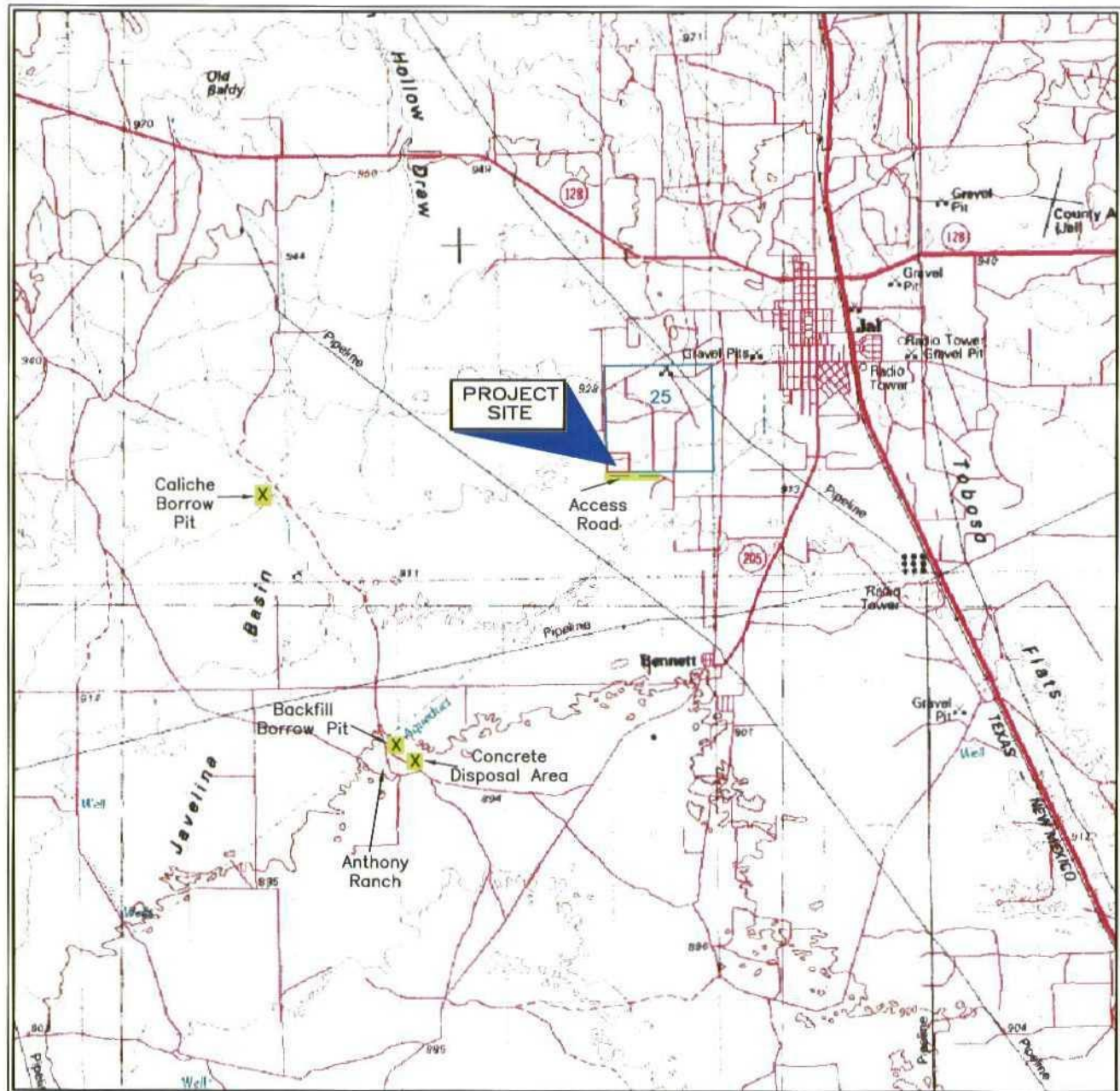
- Soil remediation and site closure activities were performed in accordance to tasks outlined in a BNC document entitled "Soil Assessment Report and Remedial Workplan - Jay Anthony Site, Lea County, New Mexico," dated May 30, 2003. This document was prepared by BNC on behalf of EMPCo and was submitted to the New Mexico Energy, Minerals and Natural Resources Oil Conservation Division (NMOCD) and the landowner, Mr. Jay Anthony for approval. The soil remediation workplan was approved by Mr. Anthony, however a response to BNC from the NMOCD was not obtained after repeated attempts were made to contact the NMOCD representative located in the Hobbs, New Mexico District Office prior to and after field activities began on October 20, 2003.
- Confirmation soil samples collected from within the RE-A and RE-B areas were analyzed to ultimately exhibit TPH and BTEX concentrations below NMOCD remedial clean up goals.
- Concrete slabs and concrete pedestals located in the RE-C area were transported offsite to a disposal pit owned by the landowner, Mr. Jay Anthony and covered with soils obtained from the Anthony backfill borrow pit. Larger pieces of broken concrete were buried on site with the approval of Mr. Anthony.
- A total 9,765 cubic yards of affected soils were hauled from the Site to the J & L Landfarm facility located near Hobbs, New Mexico. The materials were pre-approved for acceptance at J & L Landfarm by the NMOCD and facility owner.
- The excavations were backfilled with onsite, staged soils and soil from Anthony's offsite borrow area located near the Anthony ranch house. Stockpiled soils staged onsite during remedial activities were analyzed by laboratory methods and confirmed to exhibit hydrocarbon concentrations below the NMOCD regulatory guidelines before use as backfill material.
- A total of 10,192 cubic yards of imported soils was used to backfill remedial excavations at the Site.
- The Site was re-seeded and covered with 312,340 pounds of cotton compost under the direction and satisfaction of the landowner, Mr. Jay Anthony.
- Site work was performed between October 20 and December 12, 2003 under the constant surveillance of Mr. Anthony. Consequently, additional activities were conducted to complete the soil remediation and site restoration activities to the satisfaction of the property owner.

- The results of soil remediation activities indicate that the Jay Anthony Site is eligible for closure under the regulatory guidance of the NMOCD document "Guidelines for Remediation of Spills, Leaks, and Releases" dated August 13, 1993. Based on the information provided in this Site Closure Report, no further action is recommended or planned for this site.

JAL QUADRANGLE NEW MEXICO- LEA COUNTY

LAT=32°05'41"N
LONG=103°13'31"W

PHOTO REVISED 1977



H07 SR 021704

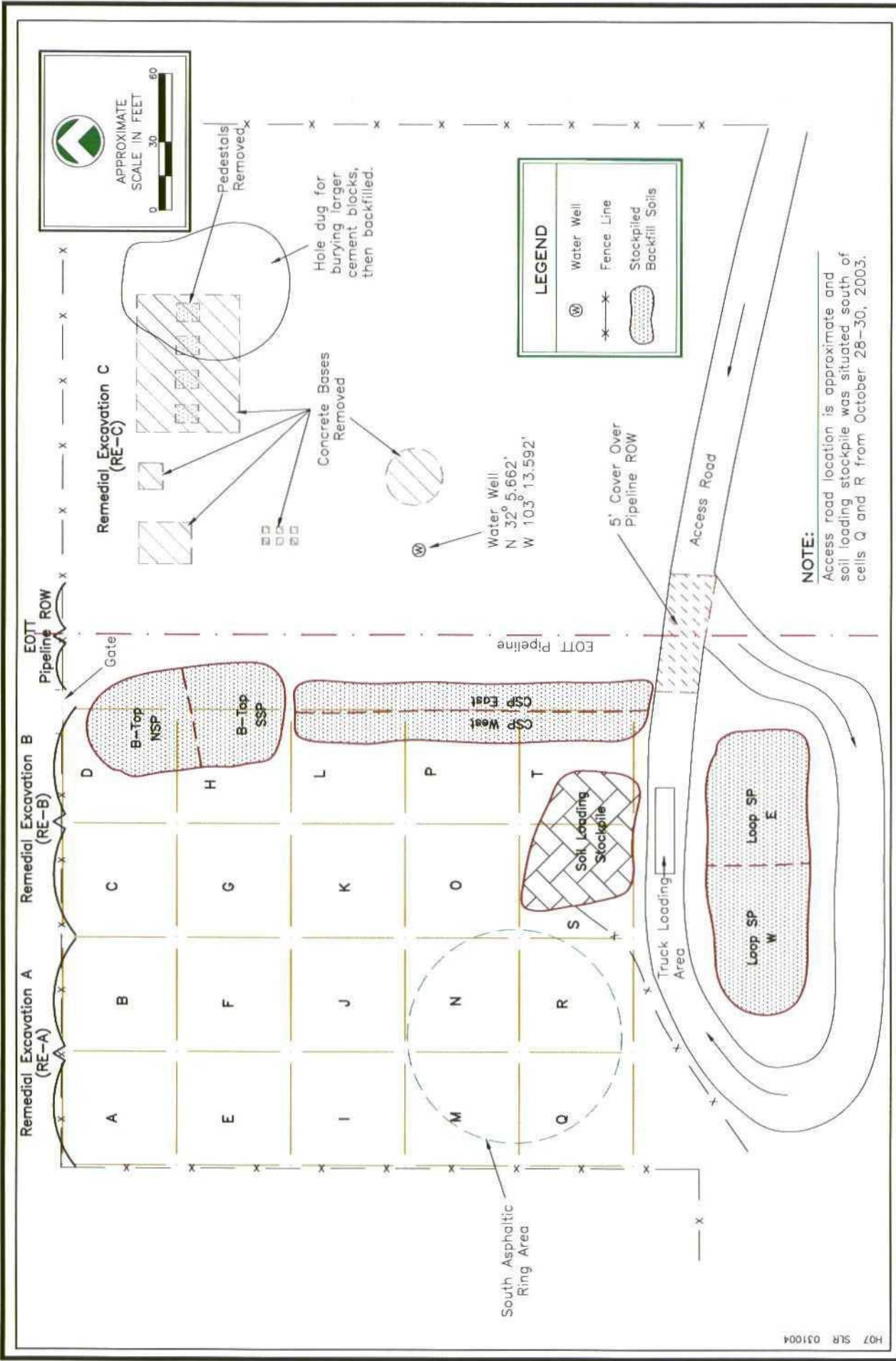


SITE LOCATION MAP

EXXONMOBIL PIPELINE COMPANY
JAY ANTHONY SITE LEA COUNTY, NEW MEXICO

JOB No.
H07-2

FIGURE
1



H07 SLR 031004



SITE DETAILS

EXXONMOBIL PIPELINE COMPANY

JAY ANTHONY SITE

LEA COUNTY, NEW MEXICO

JOB No.
H07-2

FIGURE
2

TABLE I

SUMMARY ANALYTICAL RESULTS - CONFIRMATION SOIL SAMPLES
EXXONMOBIL PIPELINE COMPANY - JAY ANTHONY SITE
LEA COUNTY, NEW MEXICO

SAMPLING EVENT	CONFIRMATION SOIL SAMPLES	DATE SAMPLE TAKEN	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TOTAL TPH (8015B) (mg/Kg)
	New Mexico Guidelines for Remediation of Leaks, Spills, and Releases:									
	Ranking Score of >19		10 mg/Kg				50 mg/Kg	---	---	100 mg/Kg
Remedial Excavation A and B Confirmation Samples										
1	U - 1.5'	10/27/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	67	67
1	B Area Excavation G/H 7'	10/29/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	100	100.0
4	B Area Excavation G/H 8'	11/5/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
2	K - 1.5'	10/30/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
2	L - 1.5'	10/30/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
2	North Wall - 4'	10/30/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
2	South Wall - 4'	10/30/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	160	160
5	Excavation G/H S Wall #2 - 4'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.21	5	5.21
3	East Wall - 4'	10/30/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	12	12
3	West Wall - 4'	10/30/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	15	15
3	C - 2.5'	11/3/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
3	D - 2.5'	11/3/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
3	G - 2.5'	11/3/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.14	<5	<5
3	H - 2.5'	11/3/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
3	O - 2.5'	11/3/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	170	170
6	O - 3'	11/10/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	56	56
3	P - 2.5'	11/3/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.46	<5	<5
3	A - 3'	11/3/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.15	19	19
3	B - 4'	11/3/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
4	T - 2.5'	11/5/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
4	E - 2.5'	11/5/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	5.4	5.4
4	F - 3.0'	11/5/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
4	J - 2.5'	11/5/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	19	19
4	J - 4.5'	11/5/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
4	N Wall A - 2.5'	11/5/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
4	N Wall B - 2.5'	11/5/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
5	I - 2.5'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
5	M - 10'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.15	3900	3900.15
7	M - 12'	11/12/03	<0.001	<0.001	<0.001	0.151	0.151	14	7000	7014
9	M -14'	11/20/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	5.5	5.5
5	N Wall M - 4'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	5.8	5.8

TABLE I

SUMMARY ANALYTICAL RESULTS - CONFIRMATION SOIL SAMPLES
EXXONMOBIL PIPELINE COMPANY - JAY ANTHONY SITE
LEA COUNTY, NEW MEXICO

SAMPLING EVENT	CONFIRMATION SOIL SAMPLES	DATE SAMPLE TAKEN	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TOTAL TPH (8015B) (mg/Kg)
New Mexico Guidelines for Remediation of Leaks, Spills, and Releases:										
	Ranking Score of >19		10 mg/Kg				50 mg/Kg	---	---	100 mg/Kg
5	E Wall M - 4'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
5	N - 8'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.12	2700	2700.12
7	N - 10'	11/12/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.24	150	150.24
9	N - 12'	11/20/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	7.7	7.7
5	N Wall N - 4'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	32	32
5	West Wall E - 2.5'	11/06/03	<0.001	<0.001	<0.001	0.0043	0.0043	<0.1	5	5
5	West Wall I - 2.5'	11/06/03	<0.001	0.0076	0.0017	0.0164	0.0257	<0.1	<5	<5
5	R - 4.0'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	8.7	8.7
5	Q - 8'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	20	20
5	Q - 4'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
5	W Wall Q - 3'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.15	6.2	6.2
5	S Wall Q - 3'	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	6.5	6.5
6	S - 2.5'	11/10/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0	<5	<5
6	E Wall N - 4'	11/10/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0	<5	<5
6	E Wall R - 5'	11/10/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0	<5	<5
6	S Wall R - 5' SE	11/10/03	<0.001	<0.001	<0.001	0.0017	0.0017	<0.0	<5	<5
6	S Wall R - 5' SW	11/10/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.14	13	13.14
7	R - 19'	11/12/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	240	240
9	R - 20'	11/20/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
8	M - 2.5'	11/13/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	46	46
8	RN - 18'	11/13/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.17	470	470.17
9	RN - 20'	11/20/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	49	49
8	E WALL N - 12'	11/13/03	<0.001	<0.001	<0.001	<0.001	<0.001	0.38	380	380.38
9	E WALL N #2 - 12'	11/20/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
Backfill Soil Stockpile Samples										
1	Loop SP-W	10/28/03	<0.001	<0.001	<0.001	0.0023	0.0023	<0.1	9.3	9.3
1	Loop SP-E	10/28/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	5.4	5.4
1	B-Top-NSP	10/28/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	14	14
1	B-Top-SSP	10/28/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	11	11
5	CSP East	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	<5	<5
5	CSP West	11/06/03	<0.001	<0.001	<0.001	<0.001	<0.001	<0.1	48	48

TABLE II
WASTE CHARACTERIZATION ANALYTICAL SUMMARY
EXXONMOBIL - JAY ANTHONY SITE
LEA COUNTY, NEW MEXICO

SAMPLE ID DATE COLLECTED	WC-1 (2/19/03)	WC-2 (5/2/03)
PARAMETER	RESULTS	
BENZENE (mg/Kg)	<0.010	NA
TOLUENE (mg/Kg)	<0.010	NA
ETHY BENZENE (mg/Kg)	<0.010	NA
XYLENE (mg/Kg)	0.0135	NA
TOTAL BTEX (mg/Kg)	0.0135	NA
TPH GRO (mg/Kg)	<1.0	ND
TPH DRO (mg/Kg)	<1000	3,600
TOTAL TPH (mg/Kg)	<1000	3,600
CORROSIVITY (mm/yr)	NON- CORROSIVE	NA
PH (s.u.)	5.6	NA
IGNITABILITY	NON- IGNITABLE	NA
REACTIVITY	NON- REACTIVE	NA
HYDROGEN SULFIDE (mg/Kg)	<10	NA
HYDROGEN CYANIDE (mg/Kg)	<2.5	NA
TCLP MERCURY (mg/L)	NA	<0.0002
TCLP ARESENIC (mg/L)	NA	<0.2
TCLP BARIUM (mg/L)	NA	<1
TCLPCADMIUM (mg/L)	NA	<0.01
TCLP CHROMIUM (mg/L)	NA	<0.02
TCLP LEAD (mg/L)	NA	<0.1
TCLP SELENIUM (mg/L)	NA	<0.2
TCLP SILVER (mg/L)	NA	<0.2
TCLP SEMIVOLATILES (ug/L)	NA	See Appendix B
TCLP VOLATILES (ug/L)	NA	See Appendix B

NA - Not Analyzed

Note: Analytical results support non-hazardous classification.

SITE CHRONOLOGY - SITE PREPARATION AND REMEDIATION
ExxonMobil - Jay Anthony Site
Lea County, New Mexico

DATE	ACTIVITY
October 20, 2003	Dozer, motorgrader, and loader mobilized to site. BNC operators received ExxonMobil Contractor Orientation Training prior to site work. Pre-start Safety Review and SSSHP review performed with site workers.
October 21-27, 2003	Site access road construction activities. Dressed off road to caliche pit located 11.5 miles from remedial excavation. Bladed and added 2130 cubic yards of caliche to 0.5 miles site access road. Added caliche to EOTT pipeline crossing to provide 5 feet of cover over pipeline. Mike Lamarre with EMGR and Tom Larson w/BNC conducts safety meeting with BNC operators and truck drivers. Sample U @ 1.5' collected south of ring area. Excavator with thumb attachment and backhoe with hammer mobilized to site.
October 28, 2003	Start affected soil removal activities from south pad ring area. Collected air monitoring measurements during soil removal and staging operations-OK. Scrape top blow sand layer off of Excavation B area. Collected soil samples from "clean" stockpiles inside access road loop (Loop SP-W; Loop SP-E) and B excavation top layer (B-TOP-NSP; B-TOP-SSP). Hauled 595cy impacted soils to J & L. Chipping and hauling concrete from eastern area. Grubbing mesquite and staging near pipeline crossing.
October 29, 2003	Continue staging and removal of affected soils. Collected bottom sample (B Area Excavation G/H 7') from small excavation. Watered roads. Serviced equipment. Hauled 833 cy impacted to J & L. Note: in evening unknown persons drove heavy equipment at site - no damage to property observed. Air compressor stolen from site. Continue concrete chipping and hauling.
October 30, 2003	County Sheriff at site in morning to complete report on stolen compressor and criminal mischief activities. Continue staging and removal of affected soil in Excavation A area. Continue concrete chipping activities. Hauled 700cy impacted to J & L. Collected soil sampled from K & L grid cells (K-1.5'; L-1.5') and from side walls of small 7' deep excavation in Excavation B area (north, south, east and west walls @4').
November 3, 2003	Continue affected soil staging and removal activities. Collected soil samples from A and B grid cells in north end Excavation A area (A-3'; B-4') and Excavation B grid cells (C-2.5'; D-2.5'; G-2.5'; H-2.5'; O-2.5'; and P-2.5'). Continue chipping of concrete pads in eastern work area. Hauled 518cy impacted to J & L.
November 4, 2003	Continue affected soil staging and removal activities as well as concrete chipping. Hauled 749cy impacted to J & L. Submit near miss report to Lamarre on criminal mischief of 10/29/03.
November 5, 2003	Continue affected soil staging/removal and concrete chipping activities. Now staging soils from Excavation Area A that appear clean in stockpiles on Excavation Area B for subsequent soil sampling. Collected grab samples from grid cells in Excavation Area A (E-2.5'; F-3.0'; J-2.5'; J-4.5'; N Wall A-2.5'; N Wall B-2.5') and in Excavation Area B (B Excavation G/H 8' and T-2.5'). Hauled 749cy impacted to J & L - total to date 4,144cy.
November 6, 2003	Continue affected soil staging/removal and concrete chipping activities. Staging "clean" soils from Excavation Area A or Excavation Area B. Stockpiling concrete. Hauled 707 cy impacted soils to J & L. Collected 16 samples. (I @ 2.5'; CSP East; CSP West; M @ 10'; N Wall M 4'; E Wall M 4'; N @ 8'; N Wall N 4'; West Wall E 2.5'; West Wall I 2.5'; R @ 4.0'; Q @ 8'; Q @ 4'; W Wall Q 3'; S Wall Q 3'; Excavation G/H S Wall #2-4')
November 7, 2003	Mobilized trackhoe hammer to site to replace backhoe hammer for concrete busting for subsequent onsite burial. Hauled 686cy impacted soils to J & L.
November 10, 2003	Making good progress on busting out 5' thick concrete pedestals with trackhoe hammer. Collected confirmation soil samples from South Ring in Excavation Area A: (E Wall N-4'; E Wall R-5'; S Wall R-5' SE; and S Wall R-5' SW) and Excavation Area B: (O-3'; S-2.5'). All grid cell areas in excavation A and B have been sampled. Thirteen of 20 grid cells have cleared. Grid cells A, B, C, D, E, F, G, H, J, K, L, P, and T have confirmation concentrations below regulatory levels. Results pending on grid I, M, N, O, Q, R, and S as well as stockpiled clean materials (ESP East, CSP West) Hauled 665 cy impacted soils to J & L - total to date 6,202 cy.
November 11, 2003	Continue busting, hauling and burying concrete pedestals. Hauled 511cy impacted soils to J & L.
November 12, 2003	Excavate South Ring area to collect deeper confirmation samples in grid cells R, M, and N to depths of 19', 12' and 10', respectively (R-19'; M-12' and N-12'). Finished concrete haul off, will bury remaining concrete onsite tomorrow. Hauled 238 cy to J & L, total to date 6,951 cy. Sloping excavation sidewall at south edge of grid R for safety considerations.
November 13, 2003	Began backfilling shallow excavations in north part of Excavation Area A with excavated and stockpiled soils exhibiting concentrations below 100 mg/Kg TPH. Cleaned out deeper excavations in south part of Excavation Area A. Collected samples in M and N grid cells: M-2.5'; RN-18' and E Wall N-12'. Hauled 700 cy impacted soils to J & L. Scraped small shallow affected soil areas around concrete area.
November 14, 2003	Continue dressing up concrete area and scraping out shallow affected soils for haul off. Removing mesquite and stockpiling clean sand along access road. Hauled 637 cy impacted soils to J & L - 8,288 cy to date.
November 15, 2003	Continue mesquite clean out and stockpiling of soils from south side of access road. Hauled 546 cy clean backfill from access road and staged near remedial excavation.
November 17, 2003	Mobilized trackhoe, dozer and loader to backfill source area. Remove mesquite from dunes with trackhoe. Use dozer and loader to prep approximately 8000 cy for loading and transportation to remedial excavation area.
November 18, 2003	Continue staging of backfill material at source area using trackhoe, dozer and loader. Waiting on analytical results

SITE CHRONOLOGY - SITE PREPARATION AND REMEDIATION

ExxonMobil - Jay Anthony Site Lea County, New Mexico

DATE	ACTIVITY
November 19, 2003	Complete staging of backfill material at source area. Analytical results from samples collected Nov. 12 & 13: R-19'; M-12'; N-10'; RN-18' and E Wall N - 12' indicate over-excavation at these locations.
November 20, 2003	Move dozer, loader and trackhoe to remedial excavation area. Over-excavate in grid areas R, M, N around south ring as indicated from 5 sample locations with concentrations reported on Nov. 19. Collected 5 samples: M-14'; N-12'; R-20', RN-20' and E Wall N #2 - 12'. Hauled 196 cy impacted soils to J & L. Placed 546 cy of clean backfill in north portion of Excavation Areas A & B.
November 21, 2003	Hauling out impacted soils from 11/20 overexcavation activities - 420 cy to J & L, total 8,904 cy to date. Also hauling in material to stage for backfilling - 1092 cy to remediation site.
November 22, 2003	Haul in backfill material to stage for backfilling - 812 cy. Prep site for large scale backfilling.
November 24, 2003	Haul in backfill material to stage for backfilling - 1,344 cy. Total imported backfill staged at site to date is 3,794 cy. Received analytical on 5 samples collected on 11/20/03 - all concentrations below cleanup levels. Prep site for large scale backfilling.
November 25, 2003	Reviewed analytical results with Jay Anthony, landowner - approved large scale backfilling operations. All confirmation sample locations, especially areas overexcavated - exhibit concentrations below cleanup goals. Began filling deeper levels of excavations first with soils analyzed to have concentrations below cleanup goals. Will top off excavations with imported clean soils. Brought in 1,414 cy clean soils for backfilling - total backfill to date is 5,208 cy. Secured site: shut down for Thanksgiving holiday.
Nov. 26-30 2003	Shutdown for Thanksgiving Holiday
December 1, 2003	BNC met with landowner to discuss project status and planned completion activities. Hauled in 1,134 cy clean backfill (6,342 cy to date). Back hauled 70 cy of impacted soils to J & L. Removing small areas of impacted soils around site. Backfilling deep excavation with dozer.
December 2, 2003	Hauled in 826 cy clean backfill and hauled off 112 cy impacted. Continue backfilling of remedial excavations
December 3, 2003	Hauled in 686 cy clean backfill (7,854 to date) and hauled off 175 cy impacted (9,261 to date). Continue backfilling of remedial excavations. Paul Sheely with NMOCDC onsite to walk through site - presented him with analytical results of confirmation samples. He indicated that it was appropriate to continue with backfilling operations.
December 4, 2003	Hauled off impacted soils - 476 cy to J & L today, 9,737 to date. Did not haul backfill as county road crews were working on haul road. Hauled in 35,600 pounds of cotton compost and staged onsite. Spread out remaining onsite backfill materials.
December 5, 2003	Hauled in 1,092 cy backfill. Finished backfilling of area west of pipeline. Too windy to spread seed. Hauled in 37,680 pounds of cotton compost. Hauled off 28 cy of impacted soils to J & L - 9,765 cy job total. Backfilling east side of pipeline.
December 6, 2003	Hauled in 1,246 cy of backfill from borrow pit, job total 10,192 cy. Backfilling task completed at remedial excavation site.
December 8, 2003	Spot caliche along road to caliche pit. Seeded construction affected area around former remedial excavation. Hauled in 26,580 pounds of cotton compost. Spread cotton compost over construction affected area.
December 9, 2003	Haul backfill from source area to cover up concrete in Anthony disposal pit. Brought in 34,060 pounds of cotton compost.
December 10, 2003	Fix cattle guard. Repaired road stretch from backfill source area 3 miles toward caliche pit with loader and walking trackhoe over chunks. Level out sand stockpile by source area. Hauled in two more loads of cotton - 34,040 pounds).
December 11, 2003	Re-seed eastern portion of construction affected area. Spread cotton compost over seeded area. Hauled in 89,080 pounds of cotton compost.
December 12, 2003	Hauled in 54,460 pounds (3 loads) of cotton compost and spread over eastern portion of site - total cotton compost utilized as cover - 312,340 pounds. Completed site restoration activities. Released trackhoe and loader. Field work portion of project complete.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03101099

Report To: BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph: fax:	Project Name: H07-2 Site: H07-2 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 11/4/03
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This Report Contains A Total Of 15 Pages

Excluding This Page

11/12/03

Date



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(713) 660-0901

Case Narrative for:
ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03101099

Report To: BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph: fax:	Project Name: H07-2 Site: H07-2 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 11/4/03
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Due to a laboratory error, this report has been revised to include Toluene by SW846 Method 8021B. SPL apologizes for any inconvenience this error may have caused you or your company.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West

Sonia West
Senior Project Manager

11/12/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03101099

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland

TX

79703-

ph:

fax:

Fax To:

Project Name: H07-2

Site: H07-2

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 11/4/03

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
U @ 1.5'	03101099-01	Soil	10/27/03 11:00:00 AM	10/30/03 9:30:00 AM	3144	<input type="checkbox"/>
Loop SP-W	03101099-02	Soil	10/28/03 12:25:00 PM	10/30/03 9:30:00 AM	3144	<input type="checkbox"/>
Loop SP-E	03101099-03	Soil	10/28/03 12:30:00 PM	10/30/03 9:30:00 AM	3144	<input type="checkbox"/>
B-Top-NSP	03101099-04	Soil	10/28/03 12:45:00 PM	10/30/03 9:30:00 AM	3144	<input type="checkbox"/>
B-Top-SSP	03101099-05	Soil	10/28/03 12:50:00 PM	10/30/03 9:30:00 AM	3144	<input type="checkbox"/>
B Area Excavation G/H7'	03101099-06	Soil	10/29/00 3:15:00 PM	10/30/03 9:30:00 AM	3144	<input type="checkbox"/>

Sonia West

Sonia West
Senior Project Manager

11/12/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/12/03 10:53:27 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: U @ 1.5' Collected: 10/27/2003 11:00 SPL Sample ID: 03101099-01

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	67	25	5		11/03/03 22:07	AM	1938410
Surr: n-Pentacosane	79.1	% 20-154	5		11/03/03 22:07	AM	1938410

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 17:23	FB	1936082
Surr: 1,4-Difluorobenzene	93.0	% 63-122	1		10/31/03 17:23	FB	1936082
Surr: 4-Bromofluorobenzene	110	% 39-150	1		10/31/03 17:23	FB	1936082

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 17:23	FB	1936057
Ethylbenzene	ND	1	1		10/31/03 17:23	FB	1936057
Toluene	ND	1	1		10/31/03 17:23	FB	1936057
Xylenes, Total	ND	1	1		10/31/03 17:23	FB	1936057
Surr: 1,4-Difluorobenzene	100	% 77-126	1		10/31/03 17:23	FB	1936057
Surr: 4-Bromofluorobenzene	104	% 66-145	1		10/31/03 17:23	FB	1936057

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 10:53:40 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Loop SP-W

Collected: 10/28/2003 12:25 SPL Sample ID: 03101099-02

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	9.3	5	1		11/03/03 22:46	AM	1938412
Surr: n-Pentacosane	100 %	20-154	1		11/03/03 22:46	AM	1938412

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 17:50	FB	1936083
Surr: 1,4-Difluorobenzene	90.0 %	63-122	1		10/31/03 17:50	FB	1936083
Surr: 4-Bromofluorobenzene	106 %	39-150	1		10/31/03 17:50	FB	1936083

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 17:50	FB	1936058
Ethylbenzene	ND	1	1		10/31/03 17:50	FB	1936058
Toluene	ND	1	1		10/31/03 17:50	FB	1936058
Xylenes, Total	2.3	1	1		10/31/03 17:50	FB	1936058
Surr: 1,4-Difluorobenzene	96.1 %	77-126	1		10/31/03 17:50	FB	1936058
Surr: 4-Bromofluorobenzene	105 %	66-145	1		10/31/03 17:50	FB	1936058

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 10:53:41 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Loop SP-E Collected: 10/28/2003 12:30 SPL Sample ID: 03101099-03

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	5.4	5		1	11/04/03 0:43	AM	1938421
Surr: n-Pentacosane	95.1	% 20-154		1	11/04/03 0:43	AM	1938421

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	10/31/03 18:17	FB	1936084
Surr: 1,4-Difluorobenzene	101	% 63-122		1	10/31/03 18:17	FB	1936084
Surr: 4-Bromofluorobenzene	105	% 39-150		1	10/31/03 18:17	FB	1936084

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	10/31/03 18:17	FB	1936059
Ethylbenzene	ND	1		1	10/31/03 18:17	FB	1936059
Toluene	ND	1		1	10/31/03 18:17	FB	1936059
Xylenes, Total	ND	1		1	10/31/03 18:17	FB	1936059
Surr: 1,4-Difluorobenzene	98.7	% 77-126		1	10/31/03 18:17	FB	1936059
Surr: 4-Bromofluorobenzene	105	% 66-145		1	10/31/03 18:17	FB	1936059

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 10:53:41 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: B-Top-NSP Collected: 10/28/2003 12:45 SPL Sample ID: 03101099-04

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	14	5	1		11/04/03 1:22 AM		1938427
Surr: n-Pentacosane	77.2 %	20-154	1		11/04/03 1:22 AM		1938427

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 18:44 FB		1936085
Surr: 1,4-Difluorobenzene	93.3 %	63-122	1		10/31/03 18:44 FB		1936085
Surr: 4-Bromofluorobenzene	90.0 %	39-150	1		10/31/03 18:44 FB		1936085

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 18:44 FB		1936060
Ethylbenzene	ND	1	1		10/31/03 18:44 FB		1936060
Toluene	ND	1	1		10/31/03 18:44 FB		1936060
Xylenes, Total	ND	1	1		10/31/03 18:44 FB		1936060
Surr: 1,4-Difluorobenzene	96.3 %	77-126	1		10/31/03 18:44 FB		1936060
Surr: 4-Bromofluorobenzene	97.4 %	66-145	1		10/31/03 18:44 FB		1936060

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL

11/12/03 10:53:42 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: B-Top-SSP Collected: 10/28/2003 12:50 SPL Sample ID: 03101099-05

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	11	5	1		11/04/03 2:01	AM	1938428
Surr: n-Pentacosane	88.5 %	20-154	1		11/04/03 2:01	AM	1938428

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 19:10	FB	1936086
Surr: 1,4-Difluorobenzene	88.3 %	63-122	1		10/31/03 19:10	FB	1936086
Surr: 4-Bromofluorobenzene	96.3 %	39-150	1		10/31/03 19:10	FB	1936086

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 19:10	FB	1936061
Ethylbenzene	ND	1	1		10/31/03 19:10	FB	1936061
Toluene	ND	1	1		10/31/03 19:10	FB	1936061
Xylenes, Total	ND	1	1		10/31/03 19:10	FB	1936061
Surr: 1,4-Difluorobenzene	97.1 %	77-126	1		10/31/03 19:10	FB	1936061
Surr: 4-Bromofluorobenzene	98.3 %	66-145	1		10/31/03 19:10	FB	1936061

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL

11/12/03 10:53:43 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: B Area Excavation G/H7' Collected: 10/29/2000 15:15 SPL Sample ID: 03101099-06

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	100	5	1		11/04/03 2:40 AM		1938430
Surr: n-Pentacosane	80.1 %	20-154	1		11/04/03 2:40 AM		1938430

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 19:37 FB		1936087
Surr: 1,4-Difluorobenzene	103 %	63-122	1		10/31/03 19:37 FB		1936087
Surr: 4-Bromofluorobenzene	107 %	39-150	1		10/31/03 19:37 FB		1936087

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 19:37 FB		1936062
Ethylbenzene	ND	1	1		10/31/03 19:37 FB		1936062
Toluene	ND	1	1		10/31/03 19:37 FB		1936062
Xylenes, Total	ND	1	1		10/31/03 19:37 FB		1936062
Surr: 1,4-Difluorobenzene	106 %	77-126	1		10/31/03 19:37 FB		1936062
Surr: 4-Bromofluorobenzene	100 %	66-145	1		10/31/03 19:37 FB		1936062

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 10:53:44 AM

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 03101099
Lab Batch ID: 32949

Method Blank

RunID: HP_V_031031E-1938373 Units: mg/Kg
Analysis Date: 10/31/2003 23:00 Analyst: AM
Preparation Date: 10/31/2003 9:21 Prep By: DMN Method SW3550B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03101099-01A	U @ 1.5'
03101099-02A	Loop SP-W
03101099-03A	Loop SP-E
03101099-04A	B-Top-NSP
03101099-05A	B-Top-SSP
03101099-06A	B Area Excavation G/H7'

Analyte	Result	Rep Limit
Diesel Range Organics	ND	5.0
Surr: n-Pentacosane	112.9	20-154

Laboratory Control Sample (LCS)

RunID: HP_V_031031E-1938375 Units: mg/Kg
Analysis Date: 10/31/2003 23:39 Analyst: AM
Preparation Date: 10/31/2003 9:21 Prep By: DMN Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	83	88	106	65	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03101099-02
RunID: HP_V_031031E-1938414 Units: mg/Kg
Analysis Date: 11/03/2003 23:25 Analyst: AM
Preparation Date: 10/31/2003 9:21 Prep By: DMN Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	9.31	83	92	99.3	83	84	90.4	8.44	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 10:54:00 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03101099
Lab Batch ID: R97164

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031031C-1936054 Units: ug/Kg
Analysis Date: 10/31/2003 15:10 Analyst: FB

Lab Sample ID	Client Sample ID
03101099-01A	U @ 1.5'
03101099-02A	Loop SP-W
03101099-03A	Loop SP-E
03101099-04A	B-Top-NSP
03101099-05A	B-Top-SSP
03101099-06A	B Area Excavation G/H7'

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	96.5	77-126
Surr: 4-Bromofluorobenzene	98.2	66-145

Laboratory Control Sample (LCS)

RunID: HP_R_031031C-1936053 Units: ug/Kg
Analysis Date: 10/31/2003 14:16 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	44.5	89	81	123
Ethylbenzene	50	47	94	82	123
Toluene	50	45.8	92	82	124
Xylenes, Total	150	141.4	94	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03101099-01
RunID: HP_R_031031C-1936055 Units: ug/Kg
Analysis Date: 10/31/2003 15:36 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	18.8	94.0	20	20.6	103	9.00	32	38	136
Ethylbenzene	ND	20	11.9	58.3	20	15.2	74.9	24.4	32	21	138
Toluene	ND	20	16.3	81.6	20	18.6	93.2	13.3	34	29	137
Xylenes, Total	ND	60	32.03	52.82	60	43.8	72.43	31.04	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
NC - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 10:54:01 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Gasoline Range Organics
Method: SW8015B

Work Order: 03101099
Lab Batch ID: R97165

Method Blank

RunID: HP_R_031031B-1936079 Units: mg/Kg
Analysis Date: 10/31/2003 15:10 Analyst: FB

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	91.0	63-122
Surr: 4-Bromofluorobenzene	91.3	39-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03101099-01A	U @ 1.5'
03101099-02A	Loop SP-W
03101099-03A	Loop SP-E
03101099-04A	B-Top-NSP
03101099-05A	B-Top-SSP
03101099-06A	B Area Excavation G/H7'

Laboratory Control Sample (LCS)

RunID: HP_R_031031B-1936078 Units: mg/Kg
Analysis Date: 10/31/2003 14:43 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.802	80	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03101099-01
RunID: HP_R_031031B-1936080 Units: mg/Kg
Analysis Date: 10/31/2003 16:30 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.786	81.5	0.9	0.744	76.8	5.53	50	26	147

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 10:54:02 AM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	03101099	Received By:	RT
Date and Time Received:	10/30/03 9:30:00 AM	Carrier name:	FedEx
Temperature:	3.7°C	Chilled by:	Water Ice

- | | | | |
|--|---|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| 13. Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance
Issues:

Client Instructions:


EXXONMOBIL

ExxonMobil Engineer: Michael Camarero Phone: 401 434 7358
Consultant Co. Name: Bm Larsen Contact: BNC Midland ^{Ti} Larsen
Address: 1001 Wampunoy Fax: _____
Trail, Riverside, R.I.

RAS #: _____ Facility/State (ID#(TN Only): _____
 AFE#(Terminal Only): _____ Consultant Project #: HO 7-2
 Location: See 251T-25-5 (City) 2 mi SW (State) NY
☐ EE R-36-E ☐ C&M ☐ SDT
☐ 0160 ExxonMobil Oil Corp ☐ 0944 ExxonMobil Marketing & Ref. Co. ☐
☐ 0614 ExxonMobil Pipeline Co. ☒ 0231 Mobil Oil Pipeline Co. ☐
 Purchase Order No.: 4503564083

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE
					H ₂ O	SOIL	AIR		
4 @ 1.5'	2-03	10/27	1100						
Loop SP-W	10/28	1225	X			X			100
Loop SP-E	10/28	1230	X			X			
B-Top - N5P	11/22	1245	X			X			
B-Top - SSP	10/28	1250	X			X			
B Area Examination G/H 3'	10/29	1110		X		X			
B Area Examination G/H 7'	10/29	1515		X		X			

[illegible]

TAT (* - Contact us Prior to Sending Samples)	QA/QC Level	SPECIAL DETECTION LIMITS (Specify)
24 HR. * 48 HR. *	STANDARD "A" <input checked="" type="checkbox"/>	<div style="text-align: center;">  </div>
72 HR. *	ENHANCED "B"	
8 BUS. <i>Standard</i>	FULL DATA "C"	
10 BUS.	TRRP DATA "C"	
15 BUS.	30 BUS.	SPECIAL REPORTING REQUIREMENTS (Specify)
		PDF <input type="checkbox"/> EDD <input type="checkbox"/>

CUSTODY RECORD	
Relinquished By Sampler:	<i>18m Layer</i>
Relinquished:	
Relinquished	

Triplicate: Original *White Lab's Copy *Green Client Copy *Yellow

16

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)		OTHER	
NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GRO <input type="checkbox"/> 8015 DRO <input type="checkbox"/>	TPH 8015 had C6H12O (New Results)
	BTEX 8021 <input checked="" type="checkbox"/> 8021 <input type="checkbox"/> 8021 <input type="checkbox"/>		
	MTBE 8021 <input type="checkbox"/> 8021 <input type="checkbox"/>		
	OXYGENATES (7) 8260 <input type="checkbox"/>		
	O&G IR 413.1 <input type="checkbox"/> GRAV. 413.2 <input type="checkbox"/> 1664 <input type="checkbox"/>		
	VOL. 8260 <input type="checkbox"/> 824 <input type="checkbox"/>		
	SEMI-VOL. 8270 <input type="checkbox"/> 625 <input type="checkbox"/>		
	PNA/PAH 8100 <input type="checkbox"/> 8310 <input type="checkbox"/> 8270 <input type="checkbox"/>		
	PCB/PEST 8081/8082 <input type="checkbox"/> PCB ONLY <input type="checkbox"/>		
	TCLP FULL <input type="checkbox"/> VOA <input type="checkbox"/> SEMI-VOA <input type="checkbox"/> PEST <input type="checkbox"/> HERB <input type="checkbox"/>		
	METALS, TOTAL RCRA <input type="checkbox"/> METALS TCLP <input type="checkbox"/>		
	PB, TOTAL 200.7 <input type="checkbox"/> 6010 <input type="checkbox"/> PB, TCLP <input type="checkbox"/>		
	PB, DISSOLVED <input type="checkbox"/> PB, TOTAL <input type="checkbox"/> (200.7/6010)		
	REACTIVITY <input type="checkbox"/> CORROSIVITY <input type="checkbox"/> FLASHPOINT <input type="checkbox"/>		
	PURGEABLE HYDROCARBON 8021 <input type="checkbox"/> 601 <input type="checkbox"/>		
	TPHH/IR 418.1 <input type="checkbox"/>		
	TOX/TOH <input type="checkbox"/>		
REMARKS: Regular TAT			
EXXONMOBIL CONTRACT NO. C57160			
Way Bill #:		Cooler Temp: 37.0	
Date	Time	Received By:	
10/24/03	1630		
Date	Time	Received By:	
10/30/03	0930		
Date	Time	Received By:	

123 7487 7940 SC @ 8/1/65





HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03101155

<u>Report To:</u> BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph fax:	<u>Project Name:</u> H07-2 <u>Site:</u> H07-2 <u>Site Address:</u> <u>PO Number:</u> <u>State:</u> New Mexico <u>State Cert. No.:</u> <u>Date Reported:</u> 11/7/03
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This Report Contains A Total Of 15 Pages

Excluding This Page

11/12/03

Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03101155

<u>Report To:</u>	<u>Project Name:</u>	H07-2
BNC Environmental Services	<u>Site:</u>	H07-2
Tom Larson	<u>Site Address:</u>	
2135 S. Loop 250 West		
Midland	<u>PO Number:</u>	
TX	<u>State:</u>	New Mexico
79703-	<u>State Cert. No.:</u>	
ph:	<u>Date Reported:</u>	11/7/03
fax:		

Due to a laboratory error, this report has been revised to include Toluene by SW846 Method 8021B. SPL apologizes for any inconvenience this error may have caused you or your company.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West

Sonia West
Senior Project Manager

11/12/03

Date _____



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03101155

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland
TX
79703-

ph:

fax:

Fax To:

Project Name: H07-2

Site: H07-2

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 11/7/03

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
K-1.5'	03101155-01	Soil	10/30/03 10:30:00 AM	10/31/03 9:30:00 AM	3145	<input type="checkbox"/>
L-1.5'	03101155-02	Soil	10/30/03 10:35:00 AM	10/31/03 9:30:00 AM	3145	<input type="checkbox"/>
North Wall 4'	03101155-03	Soil	10/30/03 1:30:00 PM	10/31/03 9:30:00 AM	3145	<input type="checkbox"/>
South Wall 4'	03101155-04	Soil	10/30/03 1:32:00 PM	10/31/03 9:30:00 AM	3145	<input type="checkbox"/>
East Wall 4'	03101155-05	Soil	10/30/03 1:35:00 PM	10/31/03 9:30:00 AM	3145	<input type="checkbox"/>
West Wall 4'	03101155-06	Soil	10/30/03 1:40:00 PM	10/31/03 9:30:00 AM	3145	<input type="checkbox"/>

Sonia West

11/12/03

Sonia West
Senior Project Manager

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/12/03 9:17:21 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: K-1.5'

Collected: 10/30/2003 10:30

SPL Sample ID: 03101155-01

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/04/03 6:35 AM		1938449
Surr: n-Pentacosane	76.4 %	20-154	1		11/04/03 6:35 AM		1938449

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 20:04 FB		1936088
Surr: 1,4-Difluorobenzene	89.3 %	63-122	1		10/31/03 20:04 FB		1936088
Surr: 4-Bromofluorobenzene	100 %	39-150	1		10/31/03 20:04 FB		1936088

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 20:04 FB		1936063
Ethylbenzene	ND	1	1		10/31/03 20:04 FB		1936063
Toluene	ND	1	1		10/31/03 20:04 FB		1936063
Xylenes, Total	ND	1	1		10/31/03 20:04 FB		1936063
Surr: 1,4-Difluorobenzene	94.7 %	77-126	1		10/31/03 20:04 FB		1936063
Surr: 4-Bromofluorobenzene	103 %	66-145	1		10/31/03 20:04 FB		1936063

Sonia West

Sonia West

Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

11/12/03 9:17:34 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: L-1.5'

Collected: 10/30/2003 10:35

SPL Sample ID: 03101155-02

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5		1	11/04/03 7:14 AM		1938452
Surr: n-Pentacosane	70.8 %	20-154		1	11/04/03 7:14 AM		1938452

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	10/31/03 20:31	FB	1936089
Surr: 1,4-Difluorobenzene	92.7 %	63-122		1	10/31/03 20:31	FB	1936089
Surr: 4-Bromofluorobenzene	94.0 %	39-150		1	10/31/03 20:31	FB	1936089

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	10/31/03 20:31	FB	1936064
Ethylbenzene	ND	1		1	10/31/03 20:31	FB	1936064
Toluene	ND	1		1	10/31/03 20:31	FB	1936064
Xylenes, Total	ND	1		1	10/31/03 20:31	FB	1936064
Surr: 1,4-Difluorobenzene	91.5 %	77-126		1	10/31/03 20:31	FB	1936064
Surr: 4-Bromofluorobenzene	96.9 %	66-145		1	10/31/03 20:31	FB	1936064

Sonia West

Sonia West

Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 9:17:34 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: North Wall 4'

Collected: 10/30/2003 13:30

SPL Sample ID: 03101155-03

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/04/03 8:32 AM		1938458
Surr: n-Pentacosane	84.4 %	20-154	1		11/04/03 8:32 AM		1938458

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 20:58 FB		1936090
Surr: 1,4-Difluorobenzene	89.3 %	63-122	1		10/31/03 20:58 FB		1936090
Surr: 4-Bromofluorobenzene	100 %	39-150	1		10/31/03 20:58 FB		1936090

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 20:58 FB		1936065
Ethylbenzene	ND	1	1		10/31/03 20:58 FB		1936065
Toluene	ND	1	1		10/31/03 20:58 FB		1936065
Xylenes, Total	ND	1	1		10/31/03 20:58 FB		1936065
Surr: 1,4-Difluorobenzene	94.1 %	77-126	1		10/31/03 20:58 FB		1936065
Surr: 4-Bromofluorobenzene	102 %	66-145	1		10/31/03 20:58 FB		1936065

Sonia West

Sonia West

Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 9:17:34 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: South Wall 4'

Collected: 10/30/2003 13:32

SPL Sample ID: 03101155-04

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	160	5	1		11/04/03 9:11 AM		1938459
Surr: n-Pentacosane	56.2 %	20-154	1		11/04/03 9:11 AM		1938459

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 21:24 FB		1936091
Surr: 1,4-Difluorobenzene	97.7 %	63-122	1		10/31/03 21:24 FB		1936091
Surr: 4-Bromofluorobenzene	93.0 %	39-150	1		10/31/03 21:24 FB		1936091

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 21:24 FB		1936066
Ethylbenzene	ND	1	1		10/31/03 21:24 FB		1936066
Toluene	ND	1	1		10/31/03 21:24 FB		1936066
Xylenes, Total	ND	1	1		10/31/03 21:24 FB		1936066
Surr: 1,4-Difluorobenzene	103 %	77-126	1		10/31/03 21:24 FB		1936066
Surr: 4-Bromofluorobenzene	101 %	66-145	1		10/31/03 21:24 FB		1936066

Sonia West

Sonia West

Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 9:17:34 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: East Wall 4'

Collected: 10/30/2003 13:35

SPL Sample ID: 03101155-05

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	12	10		2	11/06/03 15:28	AM	1943913
Surr: n-Pentacosane	57.8	% 20-154		2	11/06/03 15:28	AM	1943913

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	10/31/03 22:44	FB	1936093
Surr: 1,4-Difluorobenzene	92.0	% 63-122		1	10/31/03 22:44	FB	1936093
Surr: 4-Bromofluorobenzene	90.7	% 39-150		1	10/31/03 22:44	FB	1936093

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	10/31/03 22:44	FB	1936068
Ethylbenzene	ND	1		1	10/31/03 22:44	FB	1936068
Toluene	ND	1		1	10/31/03 22:44	FB	1936068
Xylenes, Total	ND	1		1	10/31/03 22:44	FB	1936068
Surr: 1,4-Difluorobenzene	96.9	% 77-126		1	10/31/03 22:44	FB	1936068
Surr: 4-Bromofluorobenzene	95.4	% 66-145		1	10/31/03 22:44	FB	1936068

Sonia West

Sonia West

Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 9:17:35 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: West Wall 4'

Collected: 10/30/2003 13:40

SPL Sample ID: 03101155-06

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	15	5	1		11/04/03 7:53 AM		1938456
Surr: n-Pentacosane	72.6 %	20-154	1		11/04/03 7:53 AM		1938456

Prep Method	Prep Date	Prep Initials
SW3550B	10/31/2003 9:21	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		10/31/03 23:11 FB		1936094
Surr: 1,4-Difluorobenzene	91.0 %	63-122	1		10/31/03 23:11 FB		1936094
Surr: 4-Bromofluorobenzene	98.7 %	39-150	1		10/31/03 23:11 FB		1936094

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		10/31/03 23:11 FB		1936069
Ethylbenzene	ND	1	1		10/31/03 23:11 FB		1936069
Toluene	ND	1	1		10/31/03 23:11 FB		1936069
Xylenes, Total	ND	1	1		10/31/03 23:11 FB		1936069
Surr: 1,4-Difluorobenzene	94.2 %	77-126	1		10/31/03 23:11 FB		1936069
Surr: 4-Bromofluorobenzene	102 %	66-145	1		10/31/03 23:11 FB		1936069

Sonia West

Sonia West

Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 9:17:35 AM

Quality Control Documentation

11/12/03 9:17:41 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 03101155
Lab Batch ID: 32949

Method Blank

RunID: HP_V_031031E-1938373 Units: mg/Kg
Analysis Date: 10/31/2003 23:00 Analyst: AM
Preparation Date: 10/31/2003 9:21 Prep By: DMN Method SW3550B

Analyte	Result	Rep Limit
Diesel Range Organics	ND	5.0
Surr: n-Pentacosane	112.9	20-154

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03101155-01A	K-1.5'
03101155-02A	L-1.5'
03101155-03A	North Wall 4'
03101155-04A	South Wall 4'
03101155-05A	East Wall 4'
03101155-06A	West Wall 4'

Laboratory Control Sample (LCS)

RunID: HP_V_031031E-1938375 Units: mg/Kg
Analysis Date: 10/31/2003 23:39 Analyst: AM
Preparation Date: 10/31/2003 9:21 Prep By: DMN Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	83	88	106	65	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03101099-02
RunID: HP_V_031031E-1938414 Units: mg/Kg
Analysis Date: 11/03/2003 23:25 Analyst: AM
Preparation Date: 10/31/2003 9:21 Prep By: DMN Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	9.31	83	92	99.3	83	84	90.4	8.44	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 9:17:48 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03101155
Lab Batch ID: R97164

Method Blank

RunID: HP_R_031031C-1936054 Units: ug/Kg
Analysis Date: 10/31/2003 15:10 Analyst: FB

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	96.5	77-126
Surr: 4-Bromofluorobenzene	98.2	66-145

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03101155-01A	K-1.5'
03101155-02A	L-1.5'
03101155-03A	North Wall 4'
03101155-04A	South Wall 4'
03101155-05A	East Wall 4'
03101155-06A	West Wall 4'

Laboratory Control Sample (LCS)

RunID: HP_R_031031C-1936053 Units: ug/Kg
Analysis Date: 10/31/2003 14:16 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	44.5	89	81	123
Ethylbenzene	50	47	94	82	123
Toluene	50	45.8	92	82	124
Xylenes, Total	150	141.4	94	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03101099-01
RunID: HP_R_031031C-1936055 Units: ug/Kg
Analysis Date: 10/31/2003 15:36 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	18.8	94.0	20	20.6	103	9.00	32	38	136
Ethylbenzene	ND	20	11.9	58.3	20	15.2	74.9	24.4	32	21	138
Toluene	ND	20	16.3	81.6	20	18.6	93.2	13.3	34	29	137
Xylenes, Total	ND	60	32.03	52.82	60	43.8	72.43	31.04	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 9:17:49 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 03101155
Lab Batch ID: R97165

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031031B-1936079 Units: mg/Kg
Analysis Date: 10/31/2003 15:10 Analyst: FB

Lab Sample ID	Client Sample ID
03101155-01A	K-1.5'
03101155-02A	L-1.5'
03101155-03A	North Wall 4'
03101155-04A	South Wall 4'
03101155-05A	East Wall 4'
03101155-06A	West Wall 4'

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	91.0	63-122
Surr: 4-Bromofluorobenzene	91.3	39-150

Laboratory Control Sample (LCS)

RunID: HP_R_031031B-1936078 Units: mg/Kg
Analysis Date: 10/31/2003 14:43 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.802	80	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03101099-01
RunID: HP_R_031031B-1936080 Units: mg/Kg
Analysis Date: 10/31/2003 16:30 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.786	81.5	0.9	0.744	76.8	5.53	50	26	147

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 9:17:49 AM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 03101155

Date and Time Received: 10/31/03 9:30:00 AM

Temperature: 4.0°C

Received By: NB

Carrier name: FedEx

Chilled by: Water Ice

- | | | | |
|--|--|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and received? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| 13. Water - pH acceptable upon receipt? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance
Issues:

Client Instructions:

8423 7187 7150 50/05 B





HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110058

Report To: BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph: fax:	Project Name: H07-2 Site: H07-2 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 11/13/03
--	--

This Report Contains A Total Of 17 Pages

Excluding This Page

11/13/03

Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110058

<u>Report To:</u>	<u>Project Name:</u> H07-2
BNC Environmental Services	<u>Site:</u> H07-2
Tom Larson	<u>Site Address:</u>
2135 S. Loop 250 West	
Midland	<u>PO Number:</u>
TX	<u>State:</u> New Mexico
79703-	<u>State Cert. No.:</u>
ph:	<u>Date Reported:</u> 11/13/03
fax:	

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West

Sonia West
Senior Project Manager

11/13/03

Date _____



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110058

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland

TX

79703-

ph:

fax:

Fax To:

Project Name: H07-2

Site: H07-2

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 11/13/03

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
C-2.5'	03110058-01	Soil	11/3/03 1:05:00 PM	11/4/03 9:30:00 AM	1998	<input type="checkbox"/>
D-2.5'	03110058-02	Soil	11/3/03 1:10:00 PM	11/4/03 9:30:00 AM	1998	<input type="checkbox"/>
G-2.5'	03110058-03	Soil	11/3/03 1:15:00 PM	11/4/03 9:30:00 AM	1998	<input type="checkbox"/>
H-2.5'	03110058-04	Soil	11/3/03 1:20:00 PM	11/4/03 9:30:00 AM	1998	<input type="checkbox"/>
O-2.5'	03110058-05	Soil	11/3/03 1:25:00 PM	11/4/03 9:30:00 AM	1998	<input type="checkbox"/>
P-2.5'	03110058-06	Soil	11/3/03 1:30:00 PM	11/4/03 9:30:00 AM	1998	<input type="checkbox"/>
A-3'	03110058-07	Soil	11/3/03 1:35:00 PM	11/4/03 9:30:00 AM	1998	<input type="checkbox"/>
B-4'	03110058-08	Soil	11/3/03 1:40:00 PM	11/4/03 9:30:00 AM	1998	<input type="checkbox"/>

Sonia West

Sonia West
Senior Project Manager

11/13/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/13/03 3:48:35 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: C-2.5'

Collected: 11/03/2003 13:05 SPL Sample ID: 03110058-01

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/05/03 14:57	AM	1942653
Surr: n-Pentacosane	78.5 %	20-154	1		11/05/03 14:57	AM	1942653

Prep Method	Prep Date	Prep Initials
SW3550B	11/04/2003 12:12	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/05/03 9:47	FB	1940951
Surr: 1,4-Difluorobenzene	92.0 %	63-122	1		11/05/03 9:47	FB	1940951
Surr: 4-Bromofluorobenzene	107 %	39-150	1		11/05/03 9:47	FB	1940951

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/05/03 9:47	FB	1940927
Ethylbenzene	ND	1	1		11/05/03 9:47	FB	1940927
Toluene	ND	1	1		11/05/03 9:47	FB	1940927
Xylenes, Total	ND	1	1		11/05/03 9:47	FB	1940927
Surr: 1,4-Difluorobenzene	102 %	77-126	1		11/05/03 9:47	FB	1940927
Surr: 4-Bromofluorobenzene	111 %	66-145	1		11/05/03 9:47	FB	1940927

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 3:48:50 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: D-2.5'

Collected: 11/03/2003 13:10 SPL Sample ID: 03110058-02

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5		1	11/05/03 15:35	AM	1942654
Surr: n-Pentacosane	85.3 %	20-154		1	11/05/03 15:35	AM	1942654

Prep Method	Prep Date	Prep Initials
SW3550B	11/04/2003 12:12	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/05/03 10:14	FB	1940952
Surr: 1,4-Difluorobenzene	93.0 %	63-122		1	11/05/03 10:14	FB	1940952
Surr: 4-Bromofluorobenzene	103 %	39-150		1	11/05/03 10:14	FB	1940952

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/05/03 10:14	FB	1940929
Ethylbenzene	ND	1		1	11/05/03 10:14	FB	1940929
Toluene	ND	1		1	11/05/03 10:14	FB	1940929
Xylenes, Total	ND	1		1	11/05/03 10:14	FB	1940929
Surr: 1,4-Difluorobenzene	101 %	77-126		1	11/05/03 10:14	FB	1940929
Surr: 4-Bromofluorobenzene	111 %	66-145		1	11/05/03 10:14	FB	1940929

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 3:48:51 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: G-2.5' Collected: 11/03/2003 13:15 SPL Sample ID: 03110058-03

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/05/03 16:14	AM	1942656
Surr: n-Pentacosane	50.3	% 20-154	1		11/05/03 16:14	AM	1942656

Prep Method	Prep Date	Prep Initials
SW3550B	11/04/2003 12:12	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.14	0.1	1		11/05/03 10:41	FB	1940954
Surr: 1,4-Difluorobenzene	92.7	% 63-122	1		11/05/03 10:41	FB	1940954
Surr: 4-Bromofluorobenzene	104	% 39-150	1		11/05/03 10:41	FB	1940954

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/05/03 10:41	FB	1940931
Ethylbenzene	ND	1	1		11/05/03 10:41	FB	1940931
Toluene	ND	1	1		11/05/03 10:41	FB	1940931
Xylenes, Total	ND	1	1		11/05/03 10:41	FB	1940931
Surr: 1,4-Difluorobenzene	97.2	% 77-126	1		11/05/03 10:41	FB	1940931
Surr: 4-Bromofluorobenzene	106	% 66-145	1		11/05/03 10:41	FB	1940931

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 3:48:52 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: H-2.5'

Collected: 11/03/2003 13:20

SPL Sample ID: 03110058-04

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/05/03 16:53	AM	1942657
Surr: n-Pentacosane	75.6	% 20-154	1		11/05/03 16:53	AM	1942657

Prep Method	Prep Date	Prep Initials
SW3550B	11/04/2003 12:12	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/05/03 11:07	FB	1940955
Surr: 1,4-Difluorobenzene	91.0	% 63-122	1		11/05/03 11:07	FB	1940955
Surr: 4-Bromofluorobenzene	102	% 39-150	1		11/05/03 11:07	FB	1940955

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/05/03 11:07	FB	1940932
Ethylbenzene	ND	1	1		11/05/03 11:07	FB	1940932
Toluene	ND	1	1		11/05/03 11:07	FB	1940932
Xylenes, Total	ND	1	1		11/05/03 11:07	FB	1940932
Surr: 1,4-Difluorobenzene	102	% 77-126	1		11/05/03 11:07	FB	1940932
Surr: 4-Bromofluorobenzene	110	% 66-145	1		11/05/03 11:07	FB	1940932

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 3:48:52 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: O-2.5' Collected: 11/03/2003 13:25 SPL Sample ID: 03110058-05

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	170	25	5		11/06/03 14:50	AM	1943910
Surr: n-Pentacosane	138	% 20-154	5		11/06/03 14:50	AM	1943910

Prep Method	Prep Date	Prep Initials
SW3550B	11/04/2003 12:12	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/05/03 11:34	FB	1940956
Surr: 1,4-Difluorobenzene	97.7	% 63-122	1		11/05/03 11:34	FB	1940956
Surr: 4-Bromofluorobenzene	114	% 39-150	1		11/05/03 11:34	FB	1940956

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/05/03 11:34	FB	1940933
Ethylbenzene	ND	1	1		11/05/03 11:34	FB	1940933
Toluene	ND	1	1		11/05/03 11:34	FB	1940933
Xylenes, Total	ND	1	1		11/05/03 11:34	FB	1940933
Surr: 1,4-Difluorobenzene	110	% 77-126	1		11/05/03 11:34	FB	1940933
Surr: 4-Bromofluorobenzene	111	% 66-145	1		11/05/03 11:34	FB	1940933

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL

11/13/03 3:48:53 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: P-2.5'

Collected: 11/03/2003 13:30

SPL Sample ID: 03110058-06

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/05/03 18:10	AM	1942659
Surr: n-Pentacosane	67.2	% 20-154	1		11/05/03 18:10	AM	1942659

Prep Method	Prep Date	Prep Initials
SW3550B	11/04/2003 12:12	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.46	0.1	1		11/05/03 12:01	FB	1940957
Surr: 1,4-Difluorobenzene	89.7	% 63-122	1		11/05/03 12:01	FB	1940957
Surr: 4-Bromofluorobenzene	104	% 39-150	1		11/05/03 12:01	FB	1940957

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/05/03 12:01	FB	1940934
Ethylbenzene	ND	1	1		11/05/03 12:01	FB	1940934
Toluene	ND	1	1		11/05/03 12:01	FB	1940934
Xylenes, Total	ND	1	1		11/05/03 12:01	FB	1940934
Surr: 1,4-Difluorobenzene	99.0	% 77-126	1		11/05/03 12:01	FB	1940934
Surr: 4-Bromofluorobenzene	108	% 66-145	1		11/05/03 12:01	FB	1940934

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 3:48:54 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: A-3'

Collected: 11/03/2003 13:35 SPL Sample ID: 03110058-07

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	19	5	1		11/05/03 20:46	AM	1942662
Surr: n-Pentacosane	58.8	% 20-154	1		11/05/03 20:46	AM	1942662

Prep Method	Prep Date	Prep Initials
SW3550B	11/04/2003 12:12	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.15	0.1	1		11/05/03 12:28	FB	1940958
Surr: 1,4-Difluorobenzene	92.7	% 63-122	1		11/05/03 12:28	FB	1940958
Surr: 4-Bromofluorobenzene	101	% 39-150	1		11/05/03 12:28	FB	1940958

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/05/03 12:28	FB	1940935
Ethylbenzene	ND	1	1		11/05/03 12:28	FB	1940935
Toluene	ND	1	1		11/05/03 12:28	FB	1940935
Xylenes, Total	ND	1	1		11/05/03 12:28	FB	1940935
Surr: 1,4-Difluorobenzene	97.9	% 77-126	1		11/05/03 12:28	FB	1940935
Surr: 4-Bromofluorobenzene	101	% 66-145	1		11/05/03 12:28	FB	1940935

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 3:48:55 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: B-4'

Collected: 11/03/2003 13:40 SPL Sample ID: 03110058-08

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/05/03 21:25	AM	1942663
Surr: n-Pentacosane	72.4	% 20-154	1		11/05/03 21:25	AM	1942663

Prep Method	Prep Date	Prep Initials
SW3550B	11/04/2003 12:12	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/05/03 12:55	FB	1940959
Surr: 1,4-Difluorobenzene	95.3	% 63-122	1		11/05/03 12:55	FB	1940959
Surr: 4-Bromofluorobenzene	108	% 39-150	1		11/05/03 12:55	FB	1940959

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/05/03 12:55	FB	1940936
Ethylbenzene	ND	1	1		11/05/03 12:55	FB	1940936
Toluene	ND	1	1		11/05/03 12:55	FB	1940936
Xylenes, Total	ND	1	1		11/05/03 12:55	FB	1940936
Surr: 1,4-Difluorobenzene	109	% 77-126	1		11/05/03 12:55	FB	1940936
Surr: 4-Bromofluorobenzene	113	% 66-145	1		11/05/03 12:55	FB	1940936

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

11/13/03 3:48:56 PM

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company
H07-2

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 03110058
Lab Batch ID: 33034

Method Blank

RunID: HP_V_031105A-1942651 Units: mg/Kg
Analysis Date: 11/05/2003 13:39 Analyst: AM
Preparation Date: 11/04/2003 12:12 Prep By: DMN Method SW3550B

Analyte	Result	Rep Limit
Diesel Range Organics	ND	5.0
Surr: n-Pentacosane	85.0	20-154

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03110058-01A	C-2.5'
03110058-02A	D-2.5'
03110058-03A	G-2.5'
03110058-04A	H-2.5'
03110058-05A	O-2.5'
03110058-06A	P-2.5'
03110058-07A	A-3'
03110058-08A	B-4'

Laboratory Control Sample (LCS)

RunID: HP_V_031105A-1942652 Units: mg/Kg
Analysis Date: 11/05/2003 14:18 Analyst: AM
Preparation Date: 11/04/2003 12:12 Prep By: DMN Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	83	68	82	65	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110058-01
RunID: HP_V_031105A-1942664 Units: mg/Kg
Analysis Date: 11/05/2003 22:04 Analyst: AM
Preparation Date: 11/04/2003 12:12 Prep By: DMN Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	83	55	64.5	83	57	66.8	3.37	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/13/03 3:49:12 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110058
Lab Batch ID: R97343

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031105A-1939842 Units: ug/Kg
Analysis Date: 11/05/2003 1:11 Analyst: FB

Lab Sample ID	Client Sample ID
03110058-01A	C-2.5'
03110058-02A	D-2.5'
03110058-03A	G-2.5'
03110058-04A	H-2.5'
03110058-05A	O-2.5'
03110058-06A	P-2.5'
03110058-07A	A-3'
03110058-08A	B-4'

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	101.0	77-126
Surr: 4-Bromofluorobenzene	104.8	66-145

Laboratory Control Sample (LCS)

RunID: HP_R_031105A-1939838 Units: ug/Kg
Analysis Date: 11/05/2003 0:44 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	43	86	81	123
Ethylbenzene	50	45.4	91	82	123
Toluene	50	45.4	91	82	124
Xylenes, Total	150	135.7	90	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03101174-12
RunID: HP_R_031105A-1939844 Units: ug/Kg-dry
Analysis Date: 11/05/2003 1:37 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	4.72	25.6	24.9	78.5	25.6	24.7	78.0	0.510	32	38	136
Ethylbenzene	5.58	25.6	22.4	65.8	25.6	21.5	62.2	4.18	32	21	138
Toluene	4.32	25.6	22.8	72.2	25.6	21.3	66.4	6.76	34	29	137
Xylenes, Total	9.90	76.9	82.8	94.8	76.9	69.1	77.0	18.0	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/13/03 3:49:13 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 03110058
Lab Batch ID: R97393

Method Blank

RunID: HP_R_031105B-1940950 Units: mg/Kg
Analysis Date: 11/05/2003 9:20 Analyst: FB

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	90.3	63-122
Surr: 4-Bromofluorobenzene	98.7	39-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03110058-01A	C-2.5'
03110058-02A	D-2.5'
03110058-03A	G-2.5'
03110058-04A	H-2.5'
03110058-05A	O-2.5'
03110058-06A	P-2.5'
03110058-07A	A-3'
03110058-08A	B-4'

Laboratory Control Sample (LCS)

RunID: HP_R_031105B-1940948 Units: mg/Kg
Analysis Date: 11/05/2003 8:53 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.797	80	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110058-02
RunID: HP_R_031105B-1940960 Units: mg/Kg
Analysis Date: 11/05/2003 13:22 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.808	89.8	0.9	0.856	95.1	5.75	50	26	147

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/13/03 3:49:14 PM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	03110058	Received By:	RT
Date and Time Received:	11/4/03 9:30:00 AM	Carrier name:	FedEx
Temperature:	4.1°C	Chilled by:	Water Ice

- | | | | |
|--|---|--|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels?
1. Received one set of trip blanks not written on COC. | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| 13. Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

SPL Representative: Stelly, D'Anna

Contact Date & Time: 11/7/03 6:35:00 PM

Client Name Contacted: Tom Larson

Non Conformance Issues: 1. Logged in trip blanks on hold for further notice.

Client Instructions: Notified client that sample was on hold-no response





HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110153

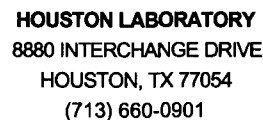
Report To: BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph: fax:	Project Name: H07-2 Site: H07-2 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 11/11/03
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This Report Contains A Total Of 17 Pages

Excluding This Page

11/12/03

Date



Certificate of Analysis Number:

03110153

<u>Report To:</u>	<u>Project Name:</u> H07-2
BNC Environmental Services	<u>Site:</u> H07-2
Tom Larson	<u>Site Address:</u>
2135 S. Loop 250 West	
	<u>PO Number:</u>
Midland	<u>State:</u> New Mexico
TX	<u>State Cert. No.:</u>
79703-	<u>Date Reported:</u> 11/11/03
ph:	
fax:	

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West

Sonia West
Senior Project Manager

11/12/03

Date _____



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110153

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland

TX

79703-

ph:

fax:

Fax To:

Project Name: H07-2

Site: H07-2

Site Address:

PQ Number:

State: New Mexico

State Cert. No.:

Date Reported: 11/11/03

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
B Area Excavation G/H-8'	03110153-01	Soil	11/5/03 11:10:00 AM	11/6/03 9:30:00 AM	3146	<input type="checkbox"/>
T 2.5'	03110153-02	Soil	11/5/03 1:00:00 PM	11/6/03 9:30:00 AM	3146	<input type="checkbox"/>
E 2.5'	03110153-03	Soil	11/5/03 1:10:00 PM	11/6/03 9:30:00 AM	3146	<input type="checkbox"/>
F 3.0'	03110153-04	Soil	11/5/03 1:15:00 PM	11/6/03 9:30:00 AM	3146	<input type="checkbox"/>
J 4.5'	03110153-05	Soil	11/5/03 1:20:00 PM	11/6/03 9:30:00 AM	3146	<input type="checkbox"/>
J 2.5'	03110153-06	Soil	11/5/03 1:30:00 PM	11/6/03 9:30:00 AM	3146	<input type="checkbox"/>
N.WALL A-2.5'	03110153-07	Soil	11/5/03 1:35:00 PM	11/6/03 9:30:00 AM	3146	<input type="checkbox"/>
I.WALL B-2.5'	03110153-08	Soil	11/5/03 1:40:00 PM	11/6/03 9:30:00 AM	3146	<input type="checkbox"/>

Sonia West

Sonia West
Senior Project Manager

11/12/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/12/03 11:11:04 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: B Area Excavation G/H-8' Collected: 11/05/2003 11:10 SPL Sample ID: 03110153-01

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5		1	11/07/03 21:08	AM	1946824
Surr: n-Pentacosane	93.5 %	20-154		1	11/07/03 21:08	AM	1946824

Prep Method	Prep Date	Prep Initials
SW3550B	11/06/2003 12:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/06/03 17:11	FB	1943845
Surr: 1,4-Difluorobenzene	91.3 %	63-122		1	11/06/03 17:11	FB	1943845
Surr: 4-Bromofluorobenzene	100 %	39-150		1	11/06/03 17:11	FB	1943845

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/06/03 17:11	FB	1943815
Ethylbenzene	ND	1		1	11/06/03 17:11	FB	1943815
Toluene	ND	1		1	11/06/03 17:11	FB	1943815
Xylenes, Total	ND	1		1	11/06/03 17:11	FB	1943815
Surr: 1,4-Difluorobenzene	102 %	77-126		1	11/06/03 17:11	FB	1943815
Surr: 4-Bromofluorobenzene	104 %	66-145		1	11/06/03 17:11	FB	1943815

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL

11/12/03 11:11:18 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: T 2.5'

Collected: 11/05/2003 13:00

SPL Sample ID: 03110153-02

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/07/03 21:47	AM	1946825
Surr: n-Pentacosane	93.3 %	20-154	1		11/07/03 21:47	AM	1946825

Prep Method	Prep Date	Prep Initials
SW3550B	11/06/2003 12:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/06/03 17:37	FB	1943846
Surr: 1,4-Difluorobenzene	94.3 %	63-122	1		11/06/03 17:37	FB	1943846
Surr: 4-Bromofluorobenzene	99.7 %	39-150	1		11/06/03 17:37	FB	1943846

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/06/03 17:37	FB	1943816
Ethylbenzene	ND	1	1		11/06/03 17:37	FB	1943816
Toluene	ND	1	1		11/06/03 17:37	FB	1943816
Xylenes, Total	ND	1	1		11/06/03 17:37	FB	1943816
Surr: 1,4-Difluorobenzene	102 %	77-126	1		11/06/03 17:37	FB	1943816
Surr: 4-Bromofluorobenzene	103 %	66-145	1		11/06/03 17:37	FB	1943816

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL

11/12/03 11:11:19 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: E 2.5'

Collected: 11/05/2003 13:10 SPL Sample ID: 03110153-03

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	5.4	5		1	11/07/03 22:25	AM	1946826
Surr: n-Pentacosane	104	% 20-154		1	11/07/03 22:25	AM	1946826

Prep Method	Prep Date	Prep Initials
SW3550B	11/06/2003 12:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/06/03 18:04	FB	1943847
Surr: 1,4-Difluorobenzene	93.3	% 63-122		1	11/06/03 18:04	FB	1943847
Surr: 4-Bromofluorobenzene	97.0	% 39-150		1	11/06/03 18:04	FB	1943847

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/06/03 18:04	FB	1943817
Ethylbenzene	ND	1		1	11/06/03 18:04	FB	1943817
Toluene	ND	1		1	11/06/03 18:04	FB	1943817
Xylenes, Total	ND	1		1	11/06/03 18:04	FB	1943817
Surr: 1,4-Difluorobenzene	107	% 77-126		1	11/06/03 18:04	FB	1943817
Surr: 4-Bromofluorobenzene	107	% 66-145		1	11/06/03 18:04	FB	1943817

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:11:20 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: F 3.0' Collected: 11/05/2003 13:15 SPL Sample ID: 03110153-04

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5		1	11/07/03 23:04	AM	1946827
Surr: n-Pentacosane	88.3 %	20-154		1	11/07/03 23:04	AM	1946827

Prep Method	Prep Date	Prep Initials
SW3550B	11/06/2003 12:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/06/03 18:31	FB	1943848
Surr: 1,4-Difluorobenzene	95.0 %	63-122		1	11/06/03 18:31	FB	1943848
Surr: 4-Bromofluorobenzene	95.7 %	39-150		1	11/06/03 18:31	FB	1943848

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/06/03 18:31	FB	1943818
Ethylbenzene	ND	1		1	11/06/03 18:31	FB	1943818
Toluene	ND	1		1	11/06/03 18:31	FB	1943818
Xylenes, Total	ND	1		1	11/06/03 18:31	FB	1943818
Surr: 1,4-Difluorobenzene	102 %	77-126		1	11/06/03 18:31	FB	1943818
Surr: 4-Bromofluorobenzene	103 %	66-145		1	11/06/03 18:31	FB	1943818

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:11:21 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: J 4.5'

Collected: 11/05/2003 13:20 SPL Sample ID: 03110153-05

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/07/03 23:43	AM	1946828
Surr: n-Pentacosane	84.7 %	20-154	1		11/07/03 23:43	AM	1946828

Prep Method	Prep Date	Prep Initials
SW3550B	11/06/2003 12:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/06/03 18:58	FB	1943849
Surr: 1,4-Difluorobenzene	89.7 %	63-122	1		11/06/03 18:58	FB	1943849
Surr: 4-Bromofluorobenzene	94.0 %	39-150	1		11/06/03 18:58	FB	1943849

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/06/03 18:58	FB	1943819
Ethylbenzene	ND	1	1		11/06/03 18:58	FB	1943819
Toluene	ND	1	1		11/06/03 18:58	FB	1943819
Xylenes, Total	ND	1	1		11/06/03 18:58	FB	1943819
Surr: 1,4-Difluorobenzene	102 %	77-126	1		11/06/03 18:58	FB	1943819
Surr: 4-Bromofluorobenzene	99.5 %	66-145	1		11/06/03 18:58	FB	1943819

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

11/12/03 11:11:21 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: J 2.5'

Collected: 11/05/2003 13:30 SPL Sample ID: 03110153-06

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	19	5	1		11/07/03 15:20	AM	1946815
Surr: n-Pentacosane	89.0	% 20-154	1		11/07/03 15:20	AM	1946815

Prep Method	Prep Date	Prep Initials
SW3550B	11/06/2003 12:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/06/03 19:24	FB	1943850
Surr: 1,4-Difluorobenzene	92.0	% 63-122	1		11/06/03 19:24	FB	1943850
Surr: 4-Bromofluorobenzene	97.7	% 39-150	1		11/06/03 19:24	FB	1943850

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/06/03 19:24	FB	1943820
Ethylbenzene	ND	1	1		11/06/03 19:24	FB	1943820
Toluene	ND	1	1		11/06/03 19:24	FB	1943820
Xylenes, Total	ND	1	1		11/06/03 19:24	FB	1943820
Surr: 1,4-Difluorobenzene	102	% 77-126	1		11/06/03 19:24	FB	1943820
Surr: 4-Bromofluorobenzene	107	% 66-145	1		11/06/03 19:24	FB	1943820

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:11:22 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: N.WALL A-2.5' Collected: 11/05/2003 13:35 SPL Sample ID: 03110153-07

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5		1	11/07/03 15:59	AM	1946816
Surr: n-Pentacosane	91.5 %	20-154		1	11/07/03 15:59	AM	1946816

Prep Method	Prep Date	Prep Initials
SW3550B	11/06/2003 12:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/06/03 19:51	FB	1943851
Surr: 1,4-Difluorobenzene	93.3 %	63-122		1	11/06/03 19:51	FB	1943851
Surr: 4-Bromofluorobenzene	98.0 %	39-150		1	11/06/03 19:51	FB	1943851

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/06/03 19:51	FB	1943821
Ethylbenzene	ND	1		1	11/06/03 19:51	FB	1943821
Toluene	ND	1		1	11/06/03 19:51	FB	1943821
Xylenes, Total	ND	1		1	11/06/03 19:51	FB	1943821
Surr: 1,4-Difluorobenzene	106 %	77-126		1	11/06/03 19:51	FB	1943821
Surr: 4-Bromofluorobenzene	103 %	66-145		1	11/06/03 19:51	FB	1943821

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:11:23 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: N.WALL B-2.5'

Collected: 11/05/2003 13:40

SPL Sample ID: 03110153-08

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/07/03 16:37	AM	1946817
Surr: n-Pentacosane	88.9 %	20-154	1		11/07/03 16:37	AM	1946817

Prep Method	Prep Date	Prep Initials
SW3550B	11/06/2003 12:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/06/03 20:18	FB	1943852
Surr: 1,4-Difluorobenzene	94.3 %	63-122	1		11/06/03 20:18	FB	1943852
Surr: 4-Bromofluorobenzene	107 %	39-150	1		11/06/03 20:18	FB	1943852

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/06/03 20:18	FB	1943822
Ethylbenzene	ND	1	1		11/06/03 20:18	FB	1943822
Toluene	ND	1	1		11/06/03 20:18	FB	1943822
Xylenes, Total	ND	1	1		11/06/03 20:18	FB	1943822
Surr: 1,4-Difluorobenzene	107 %	77-126	1		11/06/03 20:18	FB	1943822
Surr: 4-Bromofluorobenzene	107 %	66-145	1		11/06/03 20:18	FB	1943822

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:11:24 AM

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company
H07-2

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 03110153
Lab Batch ID: 33096

Method Blank

Samples in Analytical Batch:

RunID: HP_V_031107A-1946819 Units: mg/Kg
Analysis Date: 11/07/2003 17:55 Analyst: AM
Preparation Date: 11/06/2003 12:10 Prep By: DMN Method SW3550B

Lab Sample ID	Client Sample ID
03110153-01A	B Area Excavation G/H-8'
03110153-02A	T 2.5'
03110153-03A	E 2.5'
03110153-04A	F 3.0'
03110153-05A	J 4.5'
03110153-06A	J 2.5'
03110153-07A	N.WALL A-2.5'
03110153-08A	N.WALL B-2.5'

Analyte	Result	Rep Limit
Diesel Range Organics	ND	5.0
Surr: n-Pentacosane	99.7	20-154

Laboratory Control Sample (LCS)

RunID: HP_V_031107A-1946820 Units: mg/Kg
Analysis Date: 11/07/2003 18:33 Analyst: AM
Preparation Date: 11/06/2003 12:10 Prep By: DMN Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	83	78	94	65	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110116-01
RunID: HP_V_031107A-1946822 Units: mg/Kg
Analysis Date: 11/07/2003 19:50 Analyst: AM
Preparation Date: 11/06/2003 12:10 Prep By: DMN Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	83	61	71.3	83	67	78.6	9.50	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:11:40 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110153
Lab Batch ID: R97544

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031106A-1943811 Units: ug/Kg
Analysis Date: 11/06/2003 14:30 Analyst: FB

Lab Sample ID	Client Sample ID
03110153-01A	B Area Excavation G/H-8'
03110153-02A	T 2.5'
03110153-03A	E 2.5'
03110153-04A	F 3.0'
03110153-05A	J 4.5'
03110153-06A	J 2.5'
03110153-07A	N.WALL A-2.5'
03110153-08A	N.WALL B-2.5'

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	107.4	77-126
Surr: 4-Bromofluorobenzene	102.5	66-145

Laboratory Control Sample (LCS)

RunID: HP_R_031106A-1943810 Units: ug/Kg
Analysis Date: 11/06/2003 13:36 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	43.9	88	81	123
Ethylbenzene	50	48.2	96	82	123
Toluene	50	45.9	92	82	124
Xylenes, Total	150	143.6	96	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110116-01
RunID: HP_R_031106A-1943812 Units: ug/Kg
Analysis Date: 11/06/2003 14:57 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	18.6	93.1	20	17.8	88.8	4.76	32	38	136
Ethylbenzene	ND	20	16.1	79.6	20	15.5	76.6	3.86	32	21	138
Toluene	ND	20	17.1	84.4	20	17.2	84.5	0.211	34	29	137
Xylenes, Total	ND	60	46.5	77.0	60	44.3	73.3	4.85	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:11:41 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 03110153
Lab Batch ID: R97546

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031106C-1943841 Units: mg/Kg
Analysis Date: 11/06/2003 14:30 Analyst: FB

Lab Sample ID	Client Sample ID
03110153-01A	B Area Excavation G/H-8'
03110153-02A	T 2.5'
03110153-03A	E 2.5'
03110153-04A	F 3.0'
03110153-05A	J 4.5'
03110153-06A	J 2.5'
03110153-07A	N.WALL A-2.5'
03110153-08A	N.WALL B-2.5'

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	93.3	63-122
Surr: 4-Bromofluorobenzene	96.7	39-150

Laboratory Control Sample (LCS)

RunID: HP_R_031106C-1943840 Units: mg/Kg
Analysis Date: 11/06/2003 14:03 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Low er Limit	Upper Limit
Gasoline Range Organics	1	0.82	82	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110116-01
RunID: HP_R_031106C-1943842 Units: mg/Kg
Analysis Date: 11/06/2003 15:50 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	0.108	0.9	0.834	80.7	0.9	0.732	69.4	13.0	50	26	147

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:11:42 AM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	03110153	Received By:	RE
Date and Time Received:	11/6/03 9:30:00 AM	Carrier name:	Fedex-Standard Overn
Temperature:	4.5°C	Chilled by:	Water Ice

- | | | | |
|---|---|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and receive? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| 13. Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance

Issues:

Client Instructions:

03/10/53

EXXONMOBIL

ExxonMobil Engineer: Michael Lamarie Phone: 432/686-0086
 Consultant Co. Name: BNC - MIDLAND Contact: TOM LARSON
 Address: 2135 S. Loop 280 West Fax: 432/686-0186
Midland TX 79703

RAS #: _____ Facility/State ID#(TN Only): _____
 AFE#(Terminal Only): _____ Consultant Project #: H07-2
 Location: Sec 25, T25S, R36E (City) 2MI. SW JAL (State) NM
☐ EE ☐ C&M ☐ SDT
 0160 ExxonMobil Oil Corp ☐ 0944 ExxonMobil Marketing & Ref. Co. ☐
 0614 ExxonMobil Pipeline Co. ☒ 0231 Mobil Oil Pipeline Co. ☐
 Purchase Order No.: _____

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX	OTHER	PRESERVATIVE
					H ₂ O SOIL AIR		
<u>B-Excavation 6/H-8'</u>	<u>11/5/03</u>	<u>11:10</u>		<u>X</u>	<u>X</u>		<u>ICE</u>
<u>T-2.5'</u>	<u>11</u>	<u>13:00</u>		<u>X</u>	<u>X</u>		<u>X</u>
<u>E-2.5'</u>	<u>11</u>	<u>13:10</u>		<u>X</u>	<u>X</u>		<u>X</u>
<u>E-3.0'</u>	<u>11</u>	<u>13:15</u>		<u>X</u>	<u>X</u>		<u>X</u>
<u>J-4.5'</u>	<u>11</u>	<u>13:20</u>		<u>X</u>	<u>X</u>		<u>X</u>
<u>J-2.5'</u>	<u>11</u>	<u>13:30</u>		<u>X</u>	<u>X</u>		<u>X</u>
<u>N WALL A-2.5'</u>	<u>11</u>	<u>13:35</u>		<u>X</u>	<u>X</u>		<u>X</u>
<u>N WALL B-2.5'</u>	<u>11</u>	<u>13:40</u>		<u>X</u>	<u>X</u>		<u>X</u>

TAT (* - Contact us Prior to Sending Samples)

24 HR. 48 HR 12H *

72 HR. 5 BUS *

8 BUS. 10 BUS STAY

15 BUS. 30 BUS

Reinquired By Sample

Reinquired: _____

Reinquired: _____

CUSTODY RECORD

SPL WORKORDER NO. 3146 Page 1 of 1

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

OTHER

TOX/TOH ☐

TPH/H₂ 418.1 ☐

PURGEABLE HYDROCARBON 8021 ☐ 601 ☐

REACTIVITY ☐ CORROSION ☐ FLASHPOINT ☐

PB, DISSOLVED ☐ PB, TOTAL ☐ 200.7 ☐ 6010 ☐ PB, TCLP ☐

METALS, TOTAL PCRA ☐ METALS TCLP ☐

TCLP FULL ☐ VOA ☐ SEMI-VOA ☐ PEST ☐ HERB ☐

PCB/PEST 8081/8082 ☐ PCB ONLY ☐

PNA/PAH 8100 ☐ 8310 ☐ 8270 ☐

SEMI-VOL 8270 ☐ 625 ☐

VOL 8260 ☐ 624 ☐

O&G IR 413.1 ☐ GRAV. 413.2 ☐ 1664 ☐

OXYGENATES (?) 8260 ☐

MTBE 8021 ☐ 8260 ☐

BTEX 8021 ☒ 602 ☐

TPH/GC 8015 GAO ☒ 8015 DRO ☒

CONTAINER SIZE

NO. OF CONTAINERS

REMARKS: 48hr TAT on TPA

EXXONMOBIL CONTRACT NO. C57160

Way Bill #: _____ Cooler Temp: 4.5i

Date 11/5/03 Time _____ Received By: _____

Date 11/6/03 Time 0930 Received By: Tom Larson

Date _____ Time _____ Received By: _____

Delivered to Fedlog

942374877961 SO (5) 40/68.





HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110217

Report To: BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph: fax:	Project Name: H07-2 Site: H07-2 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 11/11/03
--	--

This Report Contains A Total Of 32 Pages

Excluding This Page

11/12/03

Date

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110217

<u>Report To:</u>	<u>Project Name:</u> H07-2
BNC Environmental Services	<u>Site:</u> H07-2
Tom Larson	<u>Site Address:</u>
2135 S. Loop 250 West	
	<u>PO Number:</u>
Midland	<u>State:</u> New Mexico
TX	<u>State Cert. No.:</u>
79703-	<u>Date Reported:</u> 11/11/03
ph:	
fax:	

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West

Sonia West
Senior Project Manager

11/12/03

Date _____



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110217

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland

TX

79703-

ph:

fax:

Fax To:

Project Name: H07-2

Site: H07-2

Site Address:

PQ Number:

State: New Mexico

State Cert. No.:

Date Reported: 11/11/03

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
I@2.5'	03110217-01	Soil	11/6/03 10:15:00 AM	11/7/03 9:30:00 AM	3147	<input type="checkbox"/>
CSP East	03110217-02	Soil	11/6/03 10:30:00 AM	11/7/03 9:30:00 AM	3147	<input type="checkbox"/>
CSP West	03110217-03	Soil	11/6/03 10:35:00 AM	11/7/03 9:30:00 AM	3147	<input type="checkbox"/>
M@10'	03110217-04	Soil	11/6/03 11:30:00 AM	11/7/03 9:30:00 AM	3147	<input type="checkbox"/>
N Wall M 4'	03110217-05	Soil	11/6/03 11:35:00 AM	11/7/03 9:30:00 AM	3147	<input type="checkbox"/>
E Wall M 4'	03110217-06	Soil	11/6/03 11:40:00 AM	11/7/03 9:30:00 AM	3147	<input type="checkbox"/>
N@8'	03110217-07	Soil	11/6/03 11:45:00 AM	11/7/03 9:30:00 AM	3147	<input type="checkbox"/>
Wall N 4'	03110217-08	Soil	11/6/03 11:50:00 AM	11/7/03 9:30:00 AM	3147	<input type="checkbox"/>
West Wall E 2.5'	03110217-09	Soil	11/6/03 11:10:00 AM	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>
West Wall I 2.5'	03110217-10	Soil	11/6/03 11:15:00 AM	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>
R@4.0'	03110217-11	Soil	11/6/03 12:10:00 PM	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>
Q@8'	03110217-12	Soil	11/6/03 12:20:00 PM	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>
Q@4'	03110217-13	Soil	11/6/03 12:25:00 PM	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>
W Wall Q 3'	03110217-14	Soil	11/6/03 12:30:00 PM	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>
S Wall Q 3'	03110217-15	Soil	11/6/03 12:35:00 PM	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>
Trip Blank	03110217-16	Water	11/6/03	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>
B Excavation G/H S Wall#2-4'	03110217-17	Soil	11/6/03 10:45:00 AM	11/7/03 9:30:00 AM	3148	<input type="checkbox"/>

Sonia West

Sonia West
Senior Project Manager

11/12/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/12/03 11:03:31 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: I@2.5'

Collected: 11/06/2003 10:15 SPL Sample ID: 03110217-01

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/10/03 14:50	AM	1948455
Surr: n-Pentacosane	98.2 %	20-154	1		11/10/03 14:50	AM	1948455

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/10/03 12:16	FB	1948328
Surr: 1,4-Difluorobenzene	91.0 %	63-122	1		11/10/03 12:16	FB	1948328
Surr: 4-Bromofluorobenzene	93.7 %	39-150	1		11/10/03 12:16	FB	1948328

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/08/03 5:34	FB	1946449
Ethylbenzene	ND	1	1		11/08/03 5:34	FB	1946449
Toluene	ND	1	1		11/08/03 5:34	FB	1946449
Xylenes, Total	ND	1	1		11/08/03 5:34	FB	1946449
Surr: 1,4-Difluorobenzene	105 %	77-126	1		11/08/03 5:34	FB	1946449
Surr: 4-Bromofluorobenzene	103 %	66-145	1		11/08/03 5:34	FB	1946449

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

11/12/03 11:03:48 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: CSP East Collected: 11/06/2003 10:30 SPL Sample ID: 03110217-02

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5		1	11/10/03 15:29	AM	1948456
Surr: n-Pentacosane	93.6 %	20-154		1	11/10/03 15:29	AM	1948456

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/10/03 12:42	FB	1948329
Surr: 1,4-Difluorobenzene	90.3 %	63-122		1	11/10/03 12:42	FB	1948329
Surr: 4-Bromofluorobenzene	92.7 %	39-150		1	11/10/03 12:42	FB	1948329

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/07/03 22:32	FB	1946593
Ethylbenzene	ND	1		1	11/07/03 22:32	FB	1946593
Toluene	ND	1		1	11/07/03 22:32	FB	1946593
Xylenes, Total	ND	1		1	11/07/03 22:32	FB	1946593
Surr: 1,4-Difluorobenzene	95.6 %	77-126		1	11/07/03 22:32	FB	1946593
Surr: 4-Bromofluorobenzene	94.6 %	66-145		1	11/07/03 22:32	FB	1946593

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:49 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: CSP West

Collected: 11/06/2003 10:35 SPL Sample ID: 03110217-03

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	48	5	1		11/11/03 10:57 AM		1949359
Surr: n-Pentacosane	106 %	20-154	1		11/11/03 10:57 AM		1949359

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/10/03 14:22 FB		1948330
Surr: 1,4-Difluorobenzene	93.0 %	63-122	1		11/10/03 14:22 FB		1948330
Surr: 4-Bromofluorobenzene	89.3 %	39-150	1		11/10/03 14:22 FB		1948330

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/07/03 23:32 FB		1946596
Ethylbenzene	ND	1	1		11/07/03 23:32 FB		1946596
Toluene	ND	1	1		11/07/03 23:32 FB		1946596
Xylenes, Total	ND	1	1		11/07/03 23:32 FB		1946596
Surr: 1,4-Difluorobenzene	98.7 %	77-126	1		11/07/03 23:32 FB		1946596
Surr: 4-Bromofluorobenzene	92.7 %	66-145	1		11/07/03 23:32 FB		1946596

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:50 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: M@10' Collected: 11/06/2003 11:30 SPL Sample ID: 03110217-04

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	3900	150	30		11/11/03 11:36 AM		1949360
Surr: n-Pentacosane	D %	20-154	30	*	11/11/03 11:36 AM		1949360

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.15	0.1	1		11/10/03 14:48 FB		1948331
Surr: 1,4-Difluorobenzene	108 %	63-122	1		11/10/03 14:48 FB		1948331
Surr: 4-Bromofluorobenzene	77.0 %	39-150	1		11/10/03 14:48 FB		1948331

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/08/03 0:02 FB		1946597
Ethylbenzene	ND	1	1		11/08/03 0:02 FB		1946597
Toluene	ND	1	1		11/08/03 0:02 FB		1946597
Xylenes, Total	ND	1	1		11/08/03 0:02 FB		1946597
Surr: 1,4-Difluorobenzene	105 %	77-126	1		11/08/03 0:02 FB		1946597
Surr: 4-Bromofluorobenzene	97.1 %	66-145	1		11/08/03 0:02 FB		1946597

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:50 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: N Wall M 4' Collected: 11/06/2003 11:35 SPL Sample ID: 03110217-05

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	5.8	5		1	11/10/03 22:39	AM	1948467
Surr: n-Pentacosane	95.8 %	20-154		1	11/10/03 22:39	AM	1948467

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/10/03 15:15	FB	1948332
Surr: 1,4-Difluorobenzene	92.7 %	63-122		1	11/10/03 15:15	FB	1948332
Surr: 4-Bromofluorobenzene	99.3 %	39-150		1	11/10/03 15:15	FB	1948332

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/08/03 0:32	FB	1946598
Ethylbenzene	ND	1		1	11/08/03 0:32	FB	1946598
Toluene	ND	1		1	11/08/03 0:32	FB	1946598
Xylenes, Total	ND	1		1	11/08/03 0:32	FB	1946598
Surr: 1,4-Difluorobenzene	97.0 %	77-126		1	11/08/03 0:32	FB	1946598
Surr: 4-Bromofluorobenzene	95.9 %	66-145		1	11/08/03 0:32	FB	1946598

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:51 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: E Wall M 4'

Collected: 11/06/2003 11:40

SPL Sample ID: 03110217-06

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/10/03 16:09	AM	1948457
Surr: n-Pentacosane	103	% 20-154	1		11/10/03 16:09	AM	1948457

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/10/03 15:42	FB	1948333
Surr: 1,4-Difluorobenzene	92.3	% 63-122	1		11/10/03 15:42	FB	1948333
Surr: 4-Bromofluorobenzene	101	% 39-150	1		11/10/03 15:42	FB	1948333

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/08/03 1:02	FB	1946600
Ethylbenzene	ND	1	1		11/08/03 1:02	FB	1946600
Toluene	ND	1	1		11/08/03 1:02	FB	1946600
Xylenes, Total	ND	1	1		11/08/03 1:02	FB	1946600
Surr: 1,4-Difluorobenzene	96.7	% 77-126	1		11/08/03 1:02	FB	1946600
Surr: 4-Bromofluorobenzene	95.6	% 66-145	1		11/08/03 1:02	FB	1946600

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

11/12/03 11:03:52 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: N@8¹ Collected: 11/06/2003 11:45 SPL Sample ID: 03110217-07

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	2700	150		30	11/11/03 11:36	AM	1949362
Surr: n-Pentacosane	D %	20-154		30 *	11/11/03 11:36	AM	1949362

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.12	0.1		1	11/10/03 16:09	FB	1948334
Surr: 1,4-Difluorobenzene	104 %	63-122		1	11/10/03 16:09	FB	1948334
Surr: 4-Bromofluorobenzene	121 %	39-150		1	11/10/03 16:09	FB	1948334

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/08/03 1:32	FB	1946601
Ethylbenzene	ND	1		1	11/08/03 1:32	FB	1946601
Toluene	ND	1		1	11/08/03 1:32	FB	1946601
Xylenes, Total	ND	1		1	11/08/03 1:32	FB	1946601
Surr: 1,4-Difluorobenzene	102 %	77-126		1	11/08/03 1:32	FB	1946601
Surr: 4-Bromofluorobenzene	99.7 %	66-145		1	11/08/03 1:32	FB	1946601

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:53 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: N Wall N 4'

Collected: 11/06/2003 11:50 SPL Sample ID: 03110217-08

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	32	5	1		11/11/03 10:18 AM		1949358
Surr: n-Pentacosane	73.7 %	20-154	1		11/11/03 10:18 AM		1949358

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/10/03 16:36 FB		1948335
Surr: 1,4-Difluorobenzene	96.7 %	63-122	1		11/10/03 16:36 FB		1948335
Surr: 4-Bromofluorobenzene	86.7 %	39-150	1		11/10/03 16:36 FB		1948335

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/08/03 2:02 FB		1946602
Ethylbenzene	ND	1	1		11/08/03 2:02 FB		1946602
Toluene	ND	1	1		11/08/03 2:02 FB		1946602
Xylenes, Total	ND	1	1		11/08/03 2:02 FB		1946602
Surr: 1,4-Difluorobenzene	98.2 %	77-126	1		11/08/03 2:02 FB		1946602
Surr: 4-Bromofluorobenzene	93.3 %	66-145	1		11/08/03 2:02 FB		1946602

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:54 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: West Wall E 2.5'

Collected: 11/06/2003 11:10 SPL Sample ID: 03110217-09

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	5	5	1		11/10/03 18:45	AM	1948461
Surr: n-Pentacosane	82.8	% 20-154	1		11/10/03 18:45	AM	1948461

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	OMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/10/03 17:03	FB	1948336
Surr: 1,4-Difluorobenzene	93.0	% 63-122	1		11/10/03 17:03	FB	1948336
Surr: 4-Bromofluorobenzene	90.0	% 39-150	1		11/10/03 17:03	FB	1948336

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/08/03 2:32	FB	1946604
Ethylbenzene	ND	1	1		11/08/03 2:32	FB	1946604
Toluene	5.8	1	1		11/08/03 2:32	FB	1946604
Xylenes, Total	4.3	1	1		11/08/03 2:32	FB	1946604
Surr: 1,4-Difluorobenzene	95.8	% 77-126	1		11/08/03 2:32	FB	1946604
Surr: 4-Bromofluorobenzene	95.1	% 66-145	1		11/08/03 2:32	FB	1946604

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:55 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: West Wall I 2.5'

Collected: 11/06/2003 11:15 SPL Sample ID: 03110217-10

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5		1	11/10/03 16:47	AM	1948458
Surr: n-Pentacosane	83.5 %	20-154		1	11/10/03 16:47	AM	1948458

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/10/03 17:29	FB	1948337
Surr: 1,4-Difluorobenzene	89.3 %	63-122		1	11/10/03 17:29	FB	1948337
Surr: 4-Bromofluorobenzene	93.3 %	39-150		1	11/10/03 17:29	FB	1948337

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/08/03 3:02	FB	1946605
Ethylbenzene	1.7	1		1	11/08/03 3:02	FB	1946605
Toluene	7.6	1		1	11/08/03 3:02	FB	1946605
Xylenes, Total	16.4	1		1	11/08/03 3:02	FB	1946605
Surr: 1,4-Difluorobenzene	98.4 %	77-126		1	11/08/03 3:02	FB	1946605
Surr: 4-Bromofluorobenzene	96.0 %	66-145		1	11/08/03 3:02	FB	1946605

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:56 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: R@4.0'

Collected: 11/06/2003 12:10 SPL Sample ID: 03110217-11

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	8.7	5		1	11/10/03 19:24	AM	1948462
Surr: n-Pentacosane	87.8	% 20-154		1	11/10/03 19:24	AM	1948462

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/10/03 18:50	FB	1948339
Surr: 1,4-Difluorobenzene	96.3	% 63-122		1	11/10/03 18:50	FB	1948339
Surr: 4-Bromofluorobenzene	104	% 39-150		1	11/10/03 18:50	FB	1948339

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/08/03 7:04	FB	1946667
Ethylbenzene	ND	1		1	11/08/03 7:04	FB	1946667
Toluene	ND	1		1	11/08/03 7:04	FB	1946667
Xylenes, Total	ND	1		1	11/08/03 7:04	FB	1946667
Surr: 1,4-Difluorobenzene	98.9	% 77-126		1	11/08/03 7:04	FB	1946667
Surr: 4-Bromofluorobenzene	97.2	% 66-145		1	11/08/03 7:04	FB	1946667

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:57 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Q@8' Collected: 11/06/2003 12:20 SPL Sample ID: 03110217-12

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	20	5		1	11/10/03 20:03	AM	1948463
Surr: n-Pentacosane	82.7 %	20-154		1	11/10/03 20:03	AM	1948463

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/10/03 19:17	FB	1948340
Surr: 1,4-Difluorobenzene	93.3 %	63-122		1	11/10/03 19:17	FB	1948340
Surr: 4-Bromofluorobenzene	101 %	39-150		1	11/10/03 19:17	FB	1948340

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/08/03 3:32	FB	1946606
Ethylbenzene	ND	1		1	11/08/03 3:32	FB	1946606
Toluene	ND	1		1	11/08/03 3:32	FB	1946606
Xylenes, Total	ND	1		1	11/08/03 3:32	FB	1946606
Surr: 1,4-Difluorobenzene	95.0 %	77-126		1	11/08/03 3:32	FB	1946606
Surr: 4-Bromofluorobenzene	92.8 %	66-145		1	11/08/03 3:32	FB	1946606

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:57 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Q@4'

Collected: 11/06/2003 12:25 SPL Sample ID: 03110217-13

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5		1	11/10/03 17:26	AM	1948459
Surr: n-Pentacosane	78.0 %	20-154		1	11/10/03 17:26	AM	1948459

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/10/03 19:44	FB	1948341
Surr: 1,4-Difluorobenzene	94.3 %	63-122		1	11/10/03 19:44	FB	1948341
Surr: 4-Bromofluorobenzene	97.3 %	39-150		1	11/10/03 19:44	FB	1948341

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/08/03 4:03	FB	1946608
Ethylbenzene	ND	1		1	11/08/03 4:03	FB	1946608
Toluene	ND	1		1	11/08/03 4:03	FB	1946608
Xylenes, Total	ND	1		1	11/08/03 4:03	FB	1946608
Surr: 1,4-Difluorobenzene	97.8 %	77-126		1	11/08/03 4:03	FB	1946608
Surr: 4-Bromofluorobenzene	95.2 %	66-145		1	11/08/03 4:03	FB	1946608

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:58 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: W Wall Q 3' Collected: 11/06/2003 12:30 SPL Sample ID: 03110217-14

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	6.2	5	1		11/10/03 20:42	AM	1948464
Surr: n-Pentacosane	69.0 %	20-154	1		11/10/03 20:42	AM	1948464

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.15	0.1	1		11/10/03 20:11	FB	1948342
Surr: 1,4-Difluorobenzene	86.7 %	63-122	1		11/10/03 20:11	FB	1948342
Surr: 4-Bromofluorobenzene	89.0 %	39-150	1		11/10/03 20:11	FB	1948342

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/08/03 7:34	FB	1946668
Ethylbenzene	ND	1	1		11/08/03 7:34	FB	1946668
Toluene	ND	1	1		11/08/03 7:34	FB	1946668
Xylenes, Total	ND	1	1		11/08/03 7:34	FB	1946668
Surr: 1,4-Difluorobenzene	95.7 %	77-126	1		11/08/03 7:34	FB	1946668
Surr: 4-Bromofluorobenzene	94.8 %	66-145	1		11/08/03 7:34	FB	1946668

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:03:59 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: S Wall Q 3'

Collected: 11/06/2003 12:35 SPL Sample ID: 03110217-15

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	6.5	5		1	11/10/03 21:21	AM	1948465
Surr: n-Pentacosane	78.5	% 20-154		1	11/10/03 21:21	AM	1948465

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/10/03 20:37	FB	1948343
Surr: 1,4-Difluorobenzene	95.3	% 63-122		1	11/10/03 20:37	FB	1948343
Surr: 4-Bromofluorobenzene	97.3	% 39-150		1	11/10/03 20:37	FB	1948343

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/08/03 8:05	FB	1946670
Ethylbenzene	ND	1		1	11/08/03 8:05	FB	1946670
Toluene	ND	1		1	11/08/03 8:05	FB	1946670
Xylenes, Total	ND	1		1	11/08/03 8:05	FB	1946670
Surr: 1,4-Difluorobenzene	97.8	% 77-126		1	11/08/03 8:05	FB	1946670
Surr: 4-Bromofluorobenzene	94.1	% 66-145		1	11/08/03 8:05	FB	1946670

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:04:00 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Trip Blank Collected: 11/06/2003 0:00 SPL Sample ID: 03110217-16

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	1	1		11/11/03 12:08	D_R	1949751
Ethylbenzene	ND	1	1		11/11/03 12:08	D_R	1949751
Toluene	ND	1	1		11/11/03 12:08	D_R	1949751
m,p-Xylene	ND	1	1		11/11/03 12:08	D_R	1949751
o-Xylene	ND	1	1		11/11/03 12:08	D_R	1949751
Xylenes, Total	ND	1	1		11/11/03 12:08	D_R	1949751
Surr: 4-Bromofluorobenzene	91.8	% 57-157	1		11/11/03 12:08	D_R	1949751
Surr: 1,4-Difluorobenzene	106	% 39-163	1		11/11/03 12:08	D_R	1949751

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:04:01 AM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: B Excavation G/H S Wall#2-4' Collected: 11/06/2003 10:45 SPL Sample ID: 03110217-17

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	5	5		1	11/10/03 22:00	AM	1948466
Surr: n-Pentacosane	69.7 %	20-154		1	11/10/03 22:00	AM	1948466

Prep Method	Prep Date	Prep Initials
SW3550B	11/07/2003 10:45	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.21	0.1		1	11/10/03 21:04	FB	1948344
Surr: 1,4-Difluorobenzene	93.7 %	63-122		1	11/10/03 21:04	FB	1948344
Surr: 4-Bromofluorobenzene	96.3 %	39-150		1	11/10/03 21:04	FB	1948344

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/08/03 8:35	FB	1946671
Ethylbenzene	ND	1		1	11/08/03 8:35	FB	1946671
Toluene	ND	1		1	11/08/03 8:35	FB	1946671
Xylenes, Total	ND	1		1	11/08/03 8:35	FB	1946671
Surr: 1,4-Difluorobenzene	98.2 %	77-126		1	11/08/03 8:35	FB	1946671
Surr: 4-Bromofluorobenzene	95.4 %	66-145		1	11/08/03 8:35	FB	1946671

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/12/03 11:04:02 AM

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 03110217
Lab Batch ID: 33130

Method Blank

RunID: HP_V_031110A-1948450 Units: mg/Kg
Analysis Date: 11/10/2003 11:16 Analyst: AM
Preparation Date: 11/07/2003 10:45 Prep By: DMN Method SW3550B

Analyte	Result	Rep Limit
Diesel Range Organics	ND	5.0
Surr: n-Pentacosane	77.7	20-154

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03110217-01A	I@2.5'
03110217-02A	CSP East
03110217-03A	CSP West
03110217-04A	M@10'
03110217-05A	N Wall M 4'
03110217-06A	E Wall M 4'
03110217-07A	N@8'
03110217-08A	N Wall N 4'
03110217-09A	West Wall E 2.5'
03110217-10A	West Wall I 2.5'
03110217-11A	R@4.0'
03110217-12A	Q@8'
03110217-13A	Q@4'
03110217-14A	W Wall Q 3'
03110217-15A	S Wall Q 3'
03110217-17A	B Excavation G/H S Wall#2-4

Laboratory Control Sample (LCS)

RunID: HP_V_031110A-1948451 Units: mg/Kg
Analysis Date: 11/10/2003 11:55 Analyst: AM
Preparation Date: 11/07/2003 10:45 Prep By: DMN Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	83	68	82	65	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110146-01
RunID: HP_V_031110A-1948453 Units: mg/Kg-dry
Analysis Date: 11/10/2003 13:32 Analyst: AM
Preparation Date: 11/07/2003 10:45 Prep By: DMN Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	92	70	72	92	76	79	8.2	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:04:19 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110217
Lab Batch ID: R97670

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031108A-1946446 Units: ug/Kg
Analysis Date: 11/08/2003 4:14 Analyst: FB

Lab Sample ID Client Sample ID
03110217-01A I@2.5'

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	103.2	77-126
Surr: 4-Bromofluorobenzene	104.1	66-145

Laboratory Control Sample (LCS)

RunID: HP_R_031108A-1946445 Units: ug/Kg
Analysis Date: 11/08/2003 3:47 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	47	94	81	123
Ethylbenzene	50	46.6	93	82	123
Toluene	50	48.1	96	82	124
Xylenes, Total	150	137.2	91	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110217-01
RunID: HP_R_031108A-1946447 Units: ug/Kg
Analysis Date: 11/08/2003 4:40 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	19.9	99.4	20	20.6	103	3.78	32	38	136
Ethylbenzene	ND	20	18.8	94.2	20	18.5	92.4	1.95	32	21	138
Toluene	ND	20	19.6	97.9	20	19.6	98.1	0.179	34	29	137
Xylenes, Total	ND	60	57.7	96.2	60	53.4	89.0	7.74	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:04:20 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110217
Lab Batch ID: R97673

Method Blank

RunID: HP_O_031107B-1946576 Units: ug/Kg
Analysis Date: 11/07/2003 16:28 Analyst: FB

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	98.5	77-126
Surr: 4-Bromofluorobenzene	93.9	66-145

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03110217-02A	CSP East
03110217-03A	CSP West
03110217-04A	M@10'
03110217-05A	N Wall M 4'
03110217-06A	E Wall M 4'
03110217-07A	N@8'
03110217-08A	N Wall N 4'
03110217-09A	West Wall E 2.5'
03110217-10A	West Wall I 2.5'
03110217-12A	Q@8'
03110217-13A	Q@4'

Laboratory Control Sample (LCS)

RunID: HP_O_031107B-1947734 Units: ug/Kg
Analysis Date: 11/10/2003 9:48 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	51.7	103	81	123
Ethylbenzene	50	51.1	102	82	123
Toluene	50	51	102	82	124
Xylenes, Total	150	151.7	101	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110087-41
RunID: HP_O_031107B-1946577 Units: ug/Kg
Analysis Date: 11/07/2003 16:58 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	21.1	106	20	22.2	111	4.73	32	38	136
Ethylbenzene	ND	20	20.5	102	20	21.7	108	5.63	32	21	138
Toluene	ND	20	20.7	104	20	21.5	108	3.74	34	29	137
Xylenes, Total	ND	60	60.1	100	60	63.4	106	5.34	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:04:21 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company
H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

Work Order: 03110217
Lab Batch ID: R97673

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:04:22 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110217
Lab Batch ID: R97675

Method Blank

Samples in Analytical Batch:

RunID: HP_O_031108A-1946662 Units: ug/Kg
Analysis Date: 11/08/2003 5:34 Analyst: FB

Lab Sample ID	Client Sample ID
03110217-11A	R@4.0'
03110217-14A	W Wall Q 3'
03110217-15A	S Wall Q 3'
03110217-17A	B Excavation G/H S Wall#2-4

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	97.7	77-126
Surr: 4-Bromofluorobenzene	95.6	66-145

Laboratory Control Sample (LCS)

RunID: HP_O_031108A-1948279 Units: ug/Kg
Analysis Date: 11/10/2003 10:18 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	52.2	104	81	123
Ethylbenzene	50	51.3	103	82	123
Toluene	50	51.8	104	82	124
Xylenes, Total	150	153.1	102	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110217-11
RunID: HP_O_031108A-1946664 Units: ug/Kg
Analysis Date: 11/08/2003 6:04 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	18.6	90.7	20	24.8	122	28.6	32	38	136
Ethylbenzene	ND	20	16.8	82.7	20	22.5	111	29.0	32	21	138
Toluene	ND	20	17.4	87.2	20	23.4	117	29.1	34	29	137
Xylenes, Total	ND	60	48.4	80.7	60	65.1	108	29.4	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:04:23 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 03110217
Lab Batch ID: R97748

Method Blank

RunID: HP_R_031110B-1948325 Units: mg/Kg
Analysis Date: 11/10/2003 9:00 Analyst: FB

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	94.3	63-122
Surr: 4-Bromofluorobenzene	96.7	39-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03110217-01A	I@2.5'
03110217-02A	CSP East
03110217-03A	CSP West
03110217-04A	M@10'
03110217-05A	N Wall M 4'
03110217-06A	E Wall M 4'
03110217-07A	N@8'
03110217-08A	N Wall N 4'
03110217-09A	West Wall E 2.5'
03110217-10A	West Wall I 2.5'
03110217-11A	R@4.0'
03110217-12A	Q@8'
03110217-13A	Q@4'
03110217-14A	W Wall Q 3'
03110217-15A	S Wall Q 3'
03110217-17A	B Excavation G/H S Wall#2-4

Laboratory Control Sample (LCS)

RunID: HP_R_031110B-1948324 Units: mg/Kg
Analysis Date: 11/10/2003 8:33 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.8	80	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110217-01
RunID: HP_R_031110B-1948326 Units: mg/Kg
Analysis Date: 11/10/2003 11:22 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.865	96.2	0.9	0.893	99.2	3.09	50	26	147

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:04:24 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110217
Lab Batch ID: R97756

Method Blank

Samples in Analytical Batch:

RunID: VARD_031111A-1948624 Units: ug/L
Analysis Date: 11/11/2003 3:48 Analyst: D_R

Lab Sample ID: 03110217-16A
Client Sample ID: Trip Blank

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	108.2	39-163
Surr: 4-Bromofluorobenzene	99.1	57-157

Laboratory Control Sample (LCS)

RunID: VARD_031111A-1948623 Units: ug/L
Analysis Date: 11/11/2003 3:21 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	52.1	104	81	125
Ethylbenzene	50	46.7	93	85	119
Toluene	50	49.9	100	87	120
m,p-Xylene	100	94.6	95	86	118
o-Xylene	50	46.7	93	83	122
Xylenes, Total	150	141.3	94	83	122

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110021-01
RunID: VARD_031111A-1949747 Units: ug/L
Analysis Date: 11/11/2003 9:56 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	22.1	111	20	22.2	111	0.129	26	43	155
Ethylbenzene	ND	20	20.1	101	20	20.2	101	0.219	34	51	142
Toluene	ND	20	21.6	104	20	21.4	104	0.823	25	57	142

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:04:24 AM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110217
Lab Batch ID: R97756

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110021-01
RunID: VARD_031111A-1949747 Units: ug/L
Analysis Date: 11/11/2003 9:56 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	ND	40	40.9	102	40	40.9	102	0.117	27	47	154
o-Xylene	ND	20	20.3	101	20	20.3	101	0.0572	25	61	138
Xylenes, Total	ND	60	61.2	102	60	61.2	102	0	27	47	154

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/12/03 11:04:25 AM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: **03110217**

Date and Time Received: **11/7/03 9:30:00 AM**

Temperature: **3.2°C**

Received By: **NB**

Carrier name: **SPL**

Chilled by: **Water Ice**

- | | | | |
|--|---|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| 13. Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance
Issues:

Client Instructions:

03110217

EXXONMOBIL		SPL WORKORDER NO <u>3147</u> Page <u>1</u> of <u>2</u>	
ExxonMobil Engineer: <u>Michael Camarce</u> Phone: <u>432-686-0086</u> Consultant Co. Name: <u>BNC Midland</u> Contact: <u>Tom Larson</u> Address: <u>2135 Sloop 2500</u> Fax: <u>432-686-0186</u> <u>Midland TX 79703</u>		ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)	
RAS #: _____ Facility/State ID#(TN Only): _____ AFE#(Terminal Only): _____ Consultant Project #: <u>H07-2</u> Location: <u>Sec 25, T-20-S, R-36-E</u> (State) <u>NM</u> <input type="checkbox"/> EE <input type="checkbox"/> C&M <input type="checkbox"/> SDT 0160 ExxonMobil Oil Corp <input checked="" type="checkbox"/> 0944 ExxonMobil Marketing & Ref. Co. <input type="checkbox"/> 0614 ExxonMobil Pipeline Co. <input type="checkbox"/> 0231 Mobil Oil Pipeline Co. <input type="checkbox"/> Purchase Order No.: <u>4503564083</u>		NO. OF CONTAINERS _____ CONTAINER SIZE _____ TPH/GC 8015 GRO <input checked="" type="checkbox"/> 8015 DRO <input checked="" type="checkbox"/> BTEX 8021 <input checked="" type="checkbox"/> 602 <input type="checkbox"/> MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> OXYGENATES (7) 8260 <input type="checkbox"/> O&G IR 413.1 <input type="checkbox"/> GRAV. 413.2 <input type="checkbox"/> 1664 <input type="checkbox"/> VOL. 8260 <input type="checkbox"/> 624 <input type="checkbox"/> SEMI-VOL. 8270 <input type="checkbox"/> 625 <input type="checkbox"/> PNA/PAH 8100 <input type="checkbox"/> 8310 <input type="checkbox"/> 8270 <input type="checkbox"/> PCB/PEST 8081/8082 <input type="checkbox"/> PCB ONLY <input type="checkbox"/> TCLP FULL <input type="checkbox"/> VOA <input type="checkbox"/> SEMI-VOA <input type="checkbox"/> PEST <input type="checkbox"/> HERB <input type="checkbox"/> METALS, TOTAL RCRA <input type="checkbox"/> METALS TCLP <input type="checkbox"/> PB, TOTAL 200.7 <input type="checkbox"/> 6010 <input type="checkbox"/> PB, TCLP <input type="checkbox"/> PB, DISSOLVED <input type="checkbox"/> PB, TOTAL <input type="checkbox"/> (200.7/6010) REACTIVITY <input type="checkbox"/> CORROSIVITY <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> PURGEABLE HYDROCARBON 8021 <input type="checkbox"/> 601 <input type="checkbox"/> TPH/HIR 418.1 <input type="checkbox"/> TOX/TOH <input type="checkbox"/>	
REMARKS: <u>48hr TAT for TPH</u> EXXONMOBIL CONTRACT NO. C57160		Way Bill #: _____ Cooler Temp: <u>3.2</u> °C	
SPECIAL DETECTION LIMITS (Specify)		SPECIAL REPORTING REQUIREMENTS (Specify) PDF <input type="checkbox"/> EDD <input type="checkbox"/>	
TAT (* - Contact us Prior to Sending Samples) 24 HR. * 48 HR. <input checked="" type="checkbox"/> 72 HR. * 5 BUS. * 8 BUS. * 10 BUS. <input checked="" type="checkbox"/> 15 BUS. * 30 BUS. *		Relinquished By Sampler: <u>[Signature]</u> Relinquished: _____ Relinquished: _____	
CUSTODY RECORD		Date <u>11/6/03</u> Time _____ Date _____ Time _____ Date _____ Time _____	

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX		OTHER PRESERVATIVE
					H ₂ O	SOIL AIR	
T@ 2.5'	11-6-03	10:15		X			ICC
CSP East		10:30	X				
CSP West		10:35	X				
M @ 10'		11:30		X			
N well m 4'		11:35		X			
E well m 4'		11:40		X			
N @ 8'		11:45		X			
N well m 4'		11:50		X			

Robert Picked up

8424 0217 1122 PO (CS) 35/bbs 11/6/03

03110217

EXXONMOBIL

SPL WORKORDER NO. 3148

Page 2 of 2

ExxonMobil Engineer: Michael Lamarre

Phone: 432-686-0086

Consultant Co. Name: BNC Midland

Contact: Tom Larson

Address: 2135 S Loop 250 W

Fax: 432-686-0186

Midland TX 79703

RAS #: _____

Facility/State ID# (TN Only): _____

AFE# (Terminal Only): 407-2

Consultant Project #: 407-2

Location: SCL 25, T 25 S, R 36 E

(City) 2 mi JAL (State) NM

☐ EE ☐ C&M ☐ SDT

0160 ExxonMobil Oil Corp

0614 ExxonMobil Pipeline Co.

0944 ExxonMobil Marketing & Ref. Co.

0231 Mobil Oil Pipeline Co.

Purchase Order No.: 4503564083

ANALYSIS REQUEST:
(CHECK APPROPRIATE BOX)

TPH/GC 8015 GROW 8015 DRO

BTEX 802

MTBE 8021 8260

OXYGENATES (?) 8260

O&G IR 413.1 GRAV. 413.2 1664

VOL. 8260 624

SEMI-VOL. 8270 625

PNA/PAH 8100 8310 8270

PCB/PEST 8081/8082 PCB ONLY

TCLP FULL VOA SEMI-VOA PEST HERB

METALS, TOTAL HCRA METALS TCLP

PB, TOTAL 200.7 6010 PB, TCLP

PB, DISSOLVED PB, TOTAL (200.7/6010

REACTIVITY CORROSIONITY FLASHPOINT

PURGEABLE HYDROCARBON 8021 601

TPHH/IR 418.1

TOX/TOH

CONTAINER SIZE

NO. OF CONTAINERS

DATE

TIME

COMP.

GRAB

MATRIX

H₂O

SOIL

AIR

OTHER PRESERVATIVE

West Wall E 2.5'

West Wall I 2.5'

RQ 4.0'

RQ 8'

RQ 4'

W Wall Q 3'

S Wall Q 3'

TOP OF

EXONMOBIL PIPELINE

TAT (*) - Contact us Prior to Sending Samples

24 HR. * 48 HR. X

72 HR. * 5 BUS. *

8 BUS. * 10 BUS. X

15 BUS. * 30 BUS.

QA/QC Level

STANDARD "A"

ENHANCED "B"

FULL DATA "C"

TRRP DATA "C"

Relinquished By Sample

Relinquished

Relinquished

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ EDD

Way Bill #

Cooler Temp:

EXXONMOBIL CONTRACT NO. C57160

REMARKS: 48 hr TAT for TPA

CUSTODY RECORD

Relinquished

Relinquished

Relinquished

Fed ex picked up





HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110307

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland
TX
79703-
ph:

fax:

Fax To:

Project Name: H07-2

Site: H07-2

Site Address:

PQ Number:

State: New Mexico

State Cert. No.:

Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
O-3'	03110307-01	Soil	11/10/03 2:30:00 PM	11/11/03 9:30:00 AM	3149	<input type="checkbox"/>
S-2.5'	03110307-02	Soil	11/10/03 2:40:00 PM	11/11/03 9:30:00 AM	3149	<input type="checkbox"/>
E Wall N-4'	03110307-03	Soil	11/10/03 3:00:00 PM	11/11/03 9:30:00 AM	3149	<input type="checkbox"/>
E Wall R-5'	03110307-04	Soil	11/10/03 3:30:00 PM	11/11/03 9:30:00 AM	3149	<input type="checkbox"/>
S Wall R-5' SE	03110307-05	Soil	11/10/03 3:40:00 PM	11/11/03 9:30:00 AM	3149	<input type="checkbox"/>
S Wall R-5' SW	03110307-06	Soil	11/10/03 3:50:00 PM	11/11/03 9:30:00 AM	3149	<input type="checkbox"/>
Trip Blank	03110307-07	Water	11/10/03	11/11/03 9:30:00 AM	3149	<input type="checkbox"/>

Sonia West

Sonia West
Senior Project Manager

11/13/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/13/03 5:36:41 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID O-3'

Collected: 11/10/2003 14:30

SPL Sample ID: 03110307-01

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	56	5	1		11/12/03 22:05 AM		1953628
Surr: n-Pentacosane	74.1	% 20-154	1		11/12/03 22:05 AM		1953628

Prep Method	Prep Date	Prep Initials
SW3550B	11/11/2003 13:15	J_L

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/12/03 9:54 FB		1952925
Surr: 1,4-Difluorobenzene	98.3	% 63-122	1		11/12/03 9:54 FB		1952925
Surr: 4-Bromofluorobenzene	98.3	% 39-150	1		11/12/03 9:54 FB		1952925

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/12/03 9:54 FB		1952865
Ethylbenzene	ND	1	1		11/12/03 9:54 FB		1952865
Toluene	ND	1	1		11/12/03 9:54 FB		1952865
Xylenes, Total	ND	1	1		11/12/03 9:54 FB		1952865
Surr: 1,4-Difluorobenzene	103	% 77-120	1		11/12/03 9:54 FB		1952865
Surr: 4-Bromofluorobenzene	97.7	% 66-140	1		11/12/03 9:54 FB		1952865

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

11/13/03 5:37:24 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID S-2.5'

Collected: 11/10/2003 14:40 SPL Sample ID: 03110307-02

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/12/03 17:31 AM		1953621
Surr: n-Pentacosane	110	% 20-154	1		11/12/03 17:31 AM		1953621

Prep Method	Prep Date	Prep Initials
SW3550B	11/11/2003 13:15	J L

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/12/03 10:21 FB		1952926
Surr: 1,4-Difluorobenzene	86.3	% 63-122	1		11/12/03 10:21 FB		1952926
Surr: 4-Bromofluorobenzene	83.0	% 39-150	1		11/12/03 10:21 FB		1952926

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/12/03 10:21 FB		1952866
Ethylbenzene	ND	1	1		11/12/03 10:21 FB		1952866
Toluene	ND	1	1		11/12/03 10:21 FB		1952866
Xylenes, Total	ND	1	1		11/12/03 10:21 FB		1952866
Surr: 1,4-Difluorobenzene	94.8	% 77-126	1		11/12/03 10:21 FB		1952866
Surr: 4-Bromofluorobenzene	92.0	% 66-145	1		11/12/03 10:21 FB		1952866

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 5:37:25 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID E Wall N-4' Collected: 11/10/2003 15:00 SPL Sample ID: 03110307-03

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/12/03 18:1C AM		1953622
Surr: n-Pentacosane	104 %	20-154	1		11/12/03 18:1C AM		1953622

Prep Method	Prep Date	Prep Initials
SW3550B	11/11/2003 13:15	J. L.

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/12/03 10:47 FB		1952927
Surr: 1,4-Difluorobenzene	91.3 %	63-122	1		11/12/03 10:47 FB		1952927
Surr: 4-Bromofluorobenzene	98.3 %	39-15C	1		11/12/03 10:47 FB		1952927

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/12/03 10:47 FB		1952867
Ethylbenzene	ND	1	1		11/12/03 10:47 FB		1952867
Toluene	ND	1	1		11/12/03 10:47 FB		1952867
Xylenes, Total	ND	1	1		11/12/03 10:47 FB		1952867
Surr: 1,4-Difluorobenzene	101 %	77-126	1		11/12/03 10:47 FB		1952867
Surr: 4-Bromofluorobenzene	102 %	66-145	1		11/12/03 10:47 FB		1952867

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 5:37:25 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID E Wall R-5' Collected: 11/10/2003 15:30 SPL Sample ID: 03110307-04

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/12/03 18:49 AM		1953623
Surr: n-Pentacosane	107	% 20-154	1		11/12/03 18:49 AM		1953623

Prep Method	Prep Date	Prep Initials
SW3550B	11/11/2003 13:15	J L

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/12/03 11:14 FB		1952928
Surr: 1,4-Difluorobenzene	94.0	% 63-122	1		11/12/03 11:14 FB		1952928
Surr: 4-Bromofluorobenzene	97.0	% 39-150	1		11/12/03 11:14 FB		1952928

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/12/03 11:14 FB		1952868
Ethylbenzene	ND	1	1		11/12/03 11:14 FB		1952868
Toluene	ND	1	1		11/12/03 11:14 FB		1952868
Xylenes, Total	ND	1	1		11/12/03 11:14 FB		1952868
Surr: 1,4-Difluorobenzene	101	% 77-126	1		11/12/03 11:14 FB		1952868
Surr: 4-Bromofluorobenzene	105	% 66-145	1		11/12/03 11:14 FB		1952868

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
* - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
J - Estimated Value between MDL and PQL

11/13/03 5:37:26 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID S Wall R-5' SE

Collected: 11/10/2003 15:40

SPL Sample ID: 03110307-05

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/12/03 19:28 AM		1953624
Surr: n-Pentacosane	95.0	% 20-154	1		11/12/03 19:28 AM		1953624

Prep Method	Prep Date	Prep Initials
SW3550B	11/11/2003 13:15	J L

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/12/03 11:41 FB		1952929
Surr: 1,4-Difluorobenzene	88.0	% 63-122	1		11/12/03 11:41 FB		1952929
Surr: 4-Bromofluorobenzene	94.3	% 39-150	1		11/12/03 11:41 FB		1952929

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/12/03 11:41 FB		1952869
Ethylbenzene	ND	1	1		11/12/03 11:41 FB		1952869
Toluene	ND	1	1		11/12/03 11:41 FB		1952869
Xylenes, Total	1.7	1	1		11/12/03 11:41 FB		1952869
Surr: 1,4-Difluorobenzene	100	% 77-126	1		11/12/03 11:41 FB		1952869
Surr: 4-Bromofluorobenzene	96.8	% 66-145	1		11/12/03 11:41 FB		1952869

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 5:37:27 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID S Wall R-5' SW

Collected: 11/10/2003 15:50

SPL Sample ID: 03110307-06

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	13	5		1	11/12/03 20:06 AM		1953625
Surr: n-Pentacosane	104	% 20-154		1	11/12/03 20:06 AM		1953625

Prep Method	Prep Date	Prep Initials
SW3550B	11/11/2003 13:15	J L

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.14	0.1		1	11/12/03 12:06 FB		1952930
Surr: 1,4-Difluorobenzene	91.7	% 63-122		1	11/12/03 12:06 FB		1952930
Surr: 4-Bromofluorobenzene	88.7	% 39-15C		1	11/12/03 12:06 FB		1952930

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/12/03 12:06 FB		1952870
Ethylbenzene	ND	1		1	11/12/03 12:06 FB		1952870
Toluene	ND	1		1	11/12/03 12:06 FB		1952870
Xylenes, Total	ND	1		1	11/12/03 12:06 FB		1952870
Surr: 1,4-Difluorobenzene	99.4	% 77-126		1	11/12/03 12:06 FB		1952870
Surr: 4-Bromofluorobenzene	98.3	% 66-145		1	11/12/03 12:06 FB		1952870

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

11/13/03 5:37:28 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID Trip Blank Collected: 11/10/2003 0:00 SPL Sample ID: 03110307-07

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	1	1		11/12/03 18:35	D_R	1953995
Ethylbenzene	ND	1	1		11/12/03 18:35	D_R	1953995
Toluene	ND	1	1		11/12/03 18:35	D_R	1953995
m,p-Xylene	ND	1	1		11/12/03 18:35	D_R	1953995
o-Xylene	ND	1	1		11/12/03 18:35	D_R	1953995
Xylenes, Total	ND	1	1		11/12/03 18:35	D_R	1953995
Surr: 4-Bromofluorobenzene	102	% 57-157	1		11/12/03 18:35	D_R	1953995
Surr: 1,4-Difluorobenzene	107	% 39-163	1		11/12/03 18:35	D_R	1953995

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/13/03 5:37:28 PM

EXXONMOBIL

ExxonMobil Engineer: Michael Lamare Phone: 432-6810-0080
Consultant Co. Name: ENC. Richard Contact: Ken Larson
Address: 235 S. Loop 201D Fax: 432-6810-0190
Midland TX 79703

RAS #: _____ Facility/Slate ID#(TN Only): _____
 AFE#(Terminal Only): _____ Consultant Project #: HOT-2
 Location: Sec 25, T15-S, R-4E (City) 2 mi SW of 89 (State) AK
☐ EE ☐ C&M ☐ SDT
 0160 ExxonMobil Oil Corp ☒
 0614 ExxonMobil Pipeline Co. ☐
 Purchase Order No.: 450351083

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX H ₂ O SOIL AIR	OTHER	PRESERVATIVE
0 - 3'	11-16	1430		X	X		10C
5 - 2.5'		1440		X	X		
E WALL N - 4'		1500		X	X		
E WALL R - 5'		1530		X	X		
S WALL R - 5' SE		1540		X	X		
S WALL R - 5' SW		1550		X	X		
Trip Blank							

SPECIAL DETECTION LIMITS (Specify)	

TAT (* - Contact us Prior to Sending

Samples		STANDARD "A"	ENHANCED "B"	FULL DATA "C"	TRRP DATA "C"
24 HR.	* 48 HR. <i>174</i>				
72 HR.	* 5 BUS.				
8 BUS.	10 BUS. <i>30</i>				
15 BUS.	30 BUS.				

Relinquished By Sampler:

**CUSTODY
RECORD**

Relinquished

Date _____ Time _____

745	Time	Received By:
-----	------	--------------

Date 11/13/00 Time 0800

Received By _____

Via Hagley

84237482103

Triplicate: Original * White Lab's Copy * Green Client Copy * Yellow

3/50

ANALYSIS REQUEST:
(CHECK APPROPRIATE BOX)

TPH/GC 8015 GRO 5 8015 DRO 4	BTEX 8021 5 602 <input type="checkbox"/>	MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/>	OXYGENATES (7) 8260 <input type="checkbox"/>	O&G IR 413.1 <input type="checkbox"/> GRAV. 413.2 <input type="checkbox"/> 1664 <input type="checkbox"/>	VOL. 8260 <input type="checkbox"/> 624 <input type="checkbox"/>	SEMI-VOL. 8270 <input type="checkbox"/> 625 <input type="checkbox"/>	PNA/PAH 8100 <input type="checkbox"/> 8310 <input type="checkbox"/> 8270 <input type="checkbox"/>	PCB/PEST 8081/8082 <input type="checkbox"/> PCB ONLY <input type="checkbox"/>	TCLP FULL <input type="checkbox"/> VOA <input type="checkbox"/> SEMI-VOA <input type="checkbox"/> PEST <input type="checkbox"/> HERB <input type="checkbox"/>	METALS, TOTAL RCRA <input type="checkbox"/> METALS TCLP <input type="checkbox"/>	PB, TOTAL 200.7 <input type="checkbox"/> 6010 <input type="checkbox"/> PB, TCLP <input type="checkbox"/>	PB, DISSOLVED <input type="checkbox"/> PB, TOTAL <input type="checkbox"/> (200.7/6010	REACTIVITY <input type="checkbox"/> CORROSIVITY <input type="checkbox"/> FLASHPOINT <input type="checkbox"/>	PURGEABLE HYDROCARBON 8021 <input type="checkbox"/> 601 <input type="checkbox"/>	TPHH/IR 418.1 <input type="checkbox"/>	TOX/TOH <input type="checkbox"/>
--	---	--	--	--	---	--	---	---	---	--	--	---	--	--	--	----------------------------------

RES

REMARKS: Need TPH as a sep

EXXONMOBIL CONTRACT NO. C57160

Way Bill #: _____ Cooler Temp: 35C

Received By:

Received By:

Received By _____





HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110438

<u>Report To:</u> BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph fax:	<u>Project Name:</u> H07-2 <u>Site:</u> H07-2 <u>Site Address:</u> <u>PO Number:</u> 4503564083 <u>State:</u> New Mexico <u>State Cert. No.:</u> <u>Date Reported:</u> 11/19/03
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This Report Contains A Total Of 12 Pages

Excluding This Page

11/20/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110438

Report To: BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph: fax:	Project Name: H07-2 Site: H07-2 Site Address: PO Number: 4503564083 State: New Mexico State Cert. No.: Date Reported: 11/19/03
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Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West
Senior Project Manager

11/20/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110438

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland

TX

79703-

ph:

fax:

Fax To:

Project Name: H07-2

Site: H07-2

Site Address:

PO Number: 4503564083

State: New Mexico

State Cert. No.:

Date Reported: 11/19/03

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
R-19'	03110438-01	Soil	11/12/03 1:30:00 PM	11/13/03 9:30:00 AM	2339	<input type="checkbox"/>
M-12'	03110438-02	Soil	11/12/03 2:35:00 PM	11/13/03 9:30:00 AM	2339	<input type="checkbox"/>
N-10'	03110438-03	Soil	11/12/03 2:55:00 PM	11/13/03 9:30:00 AM	2339	<input type="checkbox"/>

Sonia West

Sonia West
Senior Project Manager

11/20/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/20/03 2:41:59 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: R-19'

Collected: 11/12/2003 13:30

SPL Sample ID: 03110438-01

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	240	50		10	11/19/03 10:50 AM		1962553
Surr: n-Pentacosane	123 %	20-154		10	11/19/03 10:50 AM		1962553

Prep Method	Prep Date	Prep Initials
SW3550B	11/13/2003 9:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1		1	11/14/03 23:19 FB		1957885
Surr: 1,4-Difluorobenzene	93.3 %	63-122		1	11/14/03 23:19 FB		1957885
Surr: 4-Bromofluorobenzene	93.3 %	39-150		1	11/14/03 23:19 FB		1957885

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/14/03 23:19 FB		1957857
Ethylbenzene	ND	1		1	11/14/03 23:19 FB		1957857
Toluene	ND	1		1	11/14/03 23:19 FB		1957857
Xylenes, Total	ND	1		1	11/14/03 23:19 FB		1957857
Surr: 1,4-Difluorobenzene	104 %	77-126		1	11/14/03 23:19 FB		1957857
Surr: 4-Bromofluorobenzene	99.4 %	66-145		1	11/14/03 23:19 FB		1957857

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/20/03 2:42:12 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: M-12'

Collected: 11/12/2003 14:35

SPL Sample ID: 03110438-02

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	7000	300		60	11/19/03 12:06 AM		1962555
Surr: n-Pentacosane	D %	20-154		60 *	11/19/03 12:06 AM		1962555

Prep Method	Prep Date	Prep Initials
SW3550B	11/13/2003 9:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	14	0.5		5	11/14/03 22:53 FB		1957884
Surr: 1,4-Difluorobenzene	106 %	63-122		5	11/14/03 22:53 FB		1957884
Surr: 4-Bromofluorobenzene	684 MI %	39-150		5 *	11/14/03 22:53 FB		1957884

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	5		5	11/14/03 22:53 FB		1957856
Ethylbenzene	ND	5		5	11/14/03 22:53 FB		1957856
Toluene	ND	5		5	11/14/03 22:53 FB		1957856
Xylenes, Total	151	5		5	11/14/03 22:53 FB		1957856
Surr: 1,4-Difluorobenzene	112 %	77-126		5	11/14/03 22:53 FB		1957856
Surr: 4-Bromofluorobenzene	290 MI %	66-145		5 *	11/14/03 22:53 FB		1957856

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/20/03 2:42:12 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: N-10'

Collected: 11/12/2003 14:55

SPL Sample ID: 03110438-03

Site: H07-2

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	150	15		3	11/19/03 11:28 AM		1962554
Surr: n-Pentacosane	128	% 20-154		3	11/19/03 11:28 AM		1962554

Prep Method	Prep Date	Prep Initials
SW3550B	11/13/2003 9:10	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.24	0.1		1	11/14/03 23:46 FB		1957886
Surr: 1,4-Difluorobenzene	89.0	% 63-122		1	11/14/03 23:46 FB		1957886
Surr: 4-Bromofluorobenzene	82.7	% 39-150		1	11/14/03 23:46 FB		1957886

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1		1	11/14/03 23:46 FB		1957858
Ethylbenzene	ND	1		1	11/14/03 23:46 FB		1957858
Toluene	ND	1		1	11/14/03 23:46 FB		1957858
Xylenes, Total	ND	1		1	11/14/03 23:46 FB		1957858
Surr: 1,4-Difluorobenzene	96.3	% 77-126		1	11/14/03 23:46 FB		1957858
Surr: 4-Bromofluorobenzene	96.2	% 66-145		1	11/14/03 23:46 FB		1957858

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/20/03 2:42:13 PM

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 03110438
Lab Batch ID: 33300

Method Blank

Samples in Analytical Batch:

RunID: HP_V_031115A-1962542 Units: mg/Kg
Analysis Date: 11/15/2003 8:28 Analyst: AM
Preparation Date: 11/13/2003 9:10 Prep By: DMN Method SW3550B

Lab Sample ID Client Sample ID
03110438-01A R-19'
03110438-02A M-12'
03110438-03A N-10'

Analyte	Result	Rep Limit
Diesel Range Organics	ND	5.0
Surr: n-Pentacosane	102.3	20-154

Laboratory Control Sample (LCS)

RunID: HP_V_031115A-1962543 Units: mg/Kg
Analysis Date: 11/15/2003 9:06 Analyst: AM
Preparation Date: 11/13/2003 9:10 Prep By: DMN Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	83	81	98	65	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110362-01
RunID: HP_V_031115A-1962545 Units: mg/Kg
Analysis Date: 11/15/2003 10:23 Analyst: AM
Preparation Date: 11/13/2003 9:10 Prep By: DMN Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	5.14	83	82	92.6	83	76	85.3	7.63	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/20/03 2:42:26 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110438
Lab Batch ID: R98194

Method Blank

RunID: HP_R_031114B-1957852 Units: ug/Kg
Analysis Date: 11/14/2003 20:12 Analyst: FB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03110438-01A	R-19'
03110438-02A	M-12'
03110438-03A	N-10'

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	99.3	77-126
Surr: 4-Bromofluorobenzene	98.7	66-145

Laboratory Control Sample (LCS)

RunID: HP_R_031114B-1957851 Units: ug/Kg
Analysis Date: 11/14/2003 19:18 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	51.1	102	81	123
Ethylbenzene	50	49.9	100	82	123
Toluene	50	51.9	104	82	124
Xylenes, Total	150	148.5	99	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110358-02
RunID: HP_R_031114B-1957853 Units: ug/Kg
Analysis Date: 11/14/2003 20:39 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	19.8	99.1	20	20.4	102	2.78	32	38	136
Ethylbenzene	ND	20	19	94.2	20	19.5	96.4	2.35	32	21	138
Toluene	ND	20	19.5	97.3	20	20.1	101	3.48	34	29	137
Xylenes, Total	ND	60	57.4	95.0	60	57.9	95.8	0.867	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/20/03 2:42:26 PM



Quality Control Report

ExxonMobil Refining & Supply Company

H07-2

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 03110438
Lab Batch ID: R98195

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031114C-1957879 Units: mg/Kg
Analysis Date: 11/14/2003 20:12 Analyst: FB

Lab Sample ID	Client Sample ID
03110438-01A	R-19'
03110438-02A	M-12'
03110438-03A	N-10'

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	91.3	63-122
Surr: 4-Bromofluorobenzene	96.7	39-150

Laboratory Control Sample (LCS)

RunID: HP_R_031114C-1957877 Units: mg/Kg
Analysis Date: 11/14/2003 19:45 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.893	89	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110358-02
RunID: HP_R_031114C-1957880 Units: mg/Kg
Analysis Date: 11/14/2003 21:32 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	1.13	124	0.9	0.936	102	19.0	50	26	147

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/20/03 2:42:26 PM

*Sample Receipt Checklist
And
Chain of Custody*

11/20/03 2:42:32 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	03110438	Received By:	RT
Date and Time Received:	11/13/03 9:30:00 AM	Carrier name:	FedEx
Temperature:	4.0°C	Chilled by:	Water Ice

- | | | | |
|--|--|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and received? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| 13. Water - pH acceptable upon receipt? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

03110438

SPL WORKORDER NO. 239

Page 1 of 1

EXXONMOBIL

ExxonMobil Engineer: Mike Lammone Phone: 432/686-0086

Consultant Co. Name: BNC Contact: Tom Larson

Address: 2035 S Loop 250 W Fax: 432/686-0186

Midland TX 79703

RAS #: Facility/State ID# (TN Only):

AFE#(Terminal Only): Consultant Project #: HO7-2

Location: Andy Anthony Site (City) JAL (State) NM

0160 ExxonMobil Oil Corp 0944 ExxonMobil Marketing & Ref. Co. SDT

0614 ExxonMobil Pipeline Co. 0231 Mobil Oil Pipeline Co.

Purchase Order No.: 4503564083

SAMPLE ID. DATE TIME COMP. GRAB MATRIX H₂O SOIL AIR OTHER PRESERVATIVE

R-19' 11/12/03 12:30 X X ICE

M-12' " 4:35 X X "

N-10' " 4:35 X X "

RUSH

TAT * - Contact us Prior to Sending Samples

24 HR. * 48 HR. * 72 HR. * 5 BUS. * 8 BUS. * 15 BUS. * 30 BUS. *

STANDARD "A" ENHANCED "B" FULL DATA "C" TRRP DATA "C"

Relinquished By: Sampled: Relinquished: Relinquished

CUSTODY RECORD

SPECIAL DETECTION LIMITS (Specify)

QA/QC Level

STANDARD "A"

ENHANCED "B"

FULL DATA "C"

TRRP DATA "C"

Relinquished By: Sampled: Relinquished: Relinquished

REMARKS:

EXXONMOBIL CONTRACT NO. C57160

Way Bill #: Cooler Temp: 4.0C

Received By:

Received By:

Received By:

Delivered to FedEx

812374882114

SO

Triplicate: Original * White Lab's Copy * Green Client Copy * Yellow



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110490

<u>Report To:</u>	<u>Project Name:</u> H07
BNC Environmental Services	<u>Site:</u> H07
Tom Larson	<u>Site Address:</u>
2135 S. Loop 250 West	
Midland	<u>PO Number:</u>
TX	<u>State:</u> New Mexico
79703-	<u>State Cert. No.:</u>
ph	<u>Date Reported:</u> 11/20/03
fax:	

This Report Contains A Total Of 12 Pages

Excluding This Page

11/20/03

Date _____



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110490

Report To: BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph: fax:	Project Name: H07 Site: H07 Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 11/20/03
---	--

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West
Senior Project Manager

11/20/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110490

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland

TX

79703-

ph:

fax:

Project Name: H07

Site: H07

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 11/20/03

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
M-2.5'	03110490-01	Soil	11/13/03 11:30:00 AM	11/14/03 9:30:00 AM	2340	<input type="checkbox"/>
RN-18'	03110490-02	Soil	11/13/03 1:55:00 PM	11/14/03 9:30:00 AM	2340	<input type="checkbox"/>
E Wall N-12'	03110490-03	Soil	11/13/03 2:05:00 PM	11/14/03 9:30:00 AM	2340	<input type="checkbox"/>

Sonia West

Sonia West
Senior Project Manager

11/20/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/20/03 4:19:04 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: M-2.5'

Collected: 11/13/2003 11:30

SPL Sample ID: 03110490-01

Site: H07

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	46	5	1		11/19/03 20:24	AM	1963623
Surr: n-Pentacosane	88.8 %	20-154	1		11/19/03 20:24	AM	1963623

Prep Method	Prep Date	Prep Initials
SW3550B	11/14/2003 10:13	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/15/03 14:29	FB	1958034
Surr: 1,4-Difluorobenzene	94.3 %	63-122	1		11/15/03 14:29	FB	1958034
Surr: 4-Bromofluorobenzene	106 %	39-150	1		11/15/03 14:29	FB	1958034

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/15/03 14:29	FB	1957988
Ethylbenzene	ND	1	1		11/15/03 14:29	FB	1957988
Toluene	ND	1	1		11/15/03 14:29	FB	1957988
Xylenes, Total	ND	1	1		11/15/03 14:29	FB	1957988
Surr: 1,4-Difluorobenzene	102 %	77-126	1		11/15/03 14:29	FB	1957988
Surr: 4-Bromofluorobenzene	104 %	66-145	1		11/15/03 14:29	FB	1957988

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/20/03 4:19:16 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: RN-18'

Collected: 11/13/2003 13:55

SPL Sample ID: 03110490-02

Site: H07

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	470	250	50		11/19/03 21:02	AM	1963624
Surr: n-Pentacosane	D	% 20-154	50	*	11/19/03 21:02	AM	1963624

Prep Method	Prep Date	Prep Initials
SW3550B	11/14/2003 10:13	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.17	0.1	1		11/15/03 14:55	FB	1958035
Surr: 1,4-Difluorobenzene	97.7	% 63-122	1		11/15/03 14:55	FB	1958035
Surr: 4-Bromofluorobenzene	96.0	% 39-150	1		11/15/03 14:55	FB	1958035

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/15/03 14:55	FB	1957989
Ethylbenzene	ND	1	1		11/15/03 14:55	FB	1957989
Toluene	ND	1	1		11/15/03 14:55	FB	1957989
Xylenes, Total	ND	1	1		11/15/03 14:55	FB	1957989
Surr: 1,4-Difluorobenzene	103	% 77-126	1		11/15/03 14:55	FB	1957989
Surr: 4-Bromofluorobenzene	102	% 66-145	1		11/15/03 14:55	FB	1957989

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

11/20/03 4:19:16 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: E Wall N-12'

Collected: 11/13/2003 14:05

SPL Sample ID: 03110490-03

Site: H07

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	380	50	10		11/19/03 21:40 AM		1963625
Surr: n-Pentacosane	112	% 20-154	10		11/19/03 21:40 AM		1963625

Prep Method	Prep Date	Prep Initials
SW3550B	11/14/2003 10:13	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	0.38	0.1	1		11/15/03 15:22 FB		1958036
Surr: 1,4-Difluorobenzene	95.0	% 63-122	1		11/15/03 15:22 FB		1958036
Surr: 4-Bromofluorobenzene	151 MI	% 39-150	1	*	11/15/03 15:22 FB		1958036

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/15/03 15:22 FB		1957991
Ethylbenzene	ND	1	1		11/15/03 15:22 FB		1957991
Toluene	ND	1	1		11/15/03 15:22 FB		1957991
Xylenes, Total	3.4	1	1		11/15/03 15:22 FB		1957991
Surr: 1,4-Difluorobenzene	105	% 77-126	1		11/15/03 15:22 FB		1957991
Surr: 4-Bromofluorobenzene	106	% 66-145	1		11/15/03 15:22 FB		1957991

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/20/03 4:19:16 PM

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 03110490
Lab Batch ID: 33351

Method Blank

RunID: HP_V_031118A-1960231 Units: mg/Kg
Analysis Date: 11/18/2003 3:17 Analyst: AM
Preparation Date: 11/14/2003 10:13 Prep By: DMN Method SW3550B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03110490-01A	M-2.5'
03110490-02A	RN-18'
03110490-03A	E Wall N-12'

Analyte	Result	Rep Limit
Diesel Range Organics	ND	5.0
Surr: n-Pentacosane	94.6	20-154

Laboratory Control Sample (LCS)

RunID: HP_V_031118A-1960232 Units: mg/Kg
Analysis Date: 11/18/2003 3:56 Analyst: AM
Preparation Date: 11/14/2003 10:13 Prep By: DMN Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	83	76	92	65	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110445-01
RunID: HP_V_031118A-1963621 Units: mg/Kg
Analysis Date: 11/19/2003 19:07 Analyst: AM
Preparation Date: 11/14/2003 10:13 Prep By: DMN Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	1980	83	1300	N/C	83	1200	N/C	N/C	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/20/03 4:19:29 PM



Quality Control Report

ExxonMobil Refining & Supply Company

H07

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 03110490
Lab Batch ID: R98198

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031115A-1957977 Units: ug/Kg
Analysis Date: 11/15/2003 10:01 Analyst: FB

Lab Sample ID	Client Sample ID
03110490-01A	M-2.5'
03110490-02A	RN-18'
03110490-03A	E Wall N-12'

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	97.0	77-126
Surr: 4-Bromofluorobenzene	95.7	66-145

Laboratory Control Sample (LCS)

RunID: HP_R_031115A-1957975 Units: ug/Kg
Analysis Date: 11/15/2003 9:08 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	50	100	81	123
Ethylbenzene	50	48.3	97	82	123
Toluene	50	50	100	82	124
Xylenes, Total	150	143.2	95	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110362-02
RunID: HP_R_031115A-1957978 Units: ug/Kg
Analysis Date: 11/15/2003 10:28 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	19.1	95.7	20	18.5	92.4	3.51	32	38	136
Ethylbenzene	ND	20	17.7	88.5	20	17.1	85.5	3.11	32	21	138
Toluene	ND	20	18.4	92.0	20	17.9	89.7	2.48	34	29	137
Xylenes, Total	5.60	60	56.9	85.5	60	53.2	79.3	6.72	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/20/03 4:19:30 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 03110490
Lab Batch ID: R98199

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031115B-1958026 Units: mg/Kg
Analysis Date: 11/15/2003 10:01 Analyst: FB

Lab Sample ID	Client Sample ID
03110490-01A	M-2.5'
03110490-02A	RN-18'
03110490-03A	E Wall N-12'

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	93.3	63-122
Surr: 4-Bromofluorobenzene	90.7	39-150

Laboratory Control Sample (LCS)

RunID: HP_R_031115B-1958025 Units: mg/Kg
Analysis Date: 11/15/2003 9:35 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.889	89	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110362-02
RunID: HP_R_031115B-1958027 Units: mg/Kg
Analysis Date: 11/15/2003 11:22 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	0.184	0.9	1.16	108	0.9	1.06	97.5	8.68	50	26	147

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/20/03 4:19:30 PM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 03110490

Date and Time Received: 11/14/03 9:30:00 AM

Temperature: 3.6°C

Received By: RT

Carrier name: FedEx

Chilled by: Water Ice

- | | | | |
|--|--|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and receive | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| 13. Water - pH acceptable upon receipt? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance

Issues:

Client Instructions:

03110490

EXXONMOBIL		SPL WORKORDER NO. <u>2240</u> Page <u>1</u> of <u>1</u>	
ExxonMobil Engineer: <u>Mike Lammert</u> Phone: <u>432/684-2086</u> Consultant Co. Name: <u>BWC / MIDLAND</u> Contact: <u>Tom Larson</u> Address: <u>2135 Sleep 220W</u> Fax: <u>432/684-0186</u> <u>Midland TX 79703</u>		ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)	
RAS #: _____ Facility/State ID#(TN Only): _____ AFE#(Terminal Only): _____ Consultant Project #: <u>H107</u> Location: <u>Jay Anthony Site</u> (City) <u>JAL</u> (State) <u>AL</u> <input type="checkbox"/> EE <input type="checkbox"/> C&M <input type="checkbox"/> SDT 0160 ExxonMobil Oil Corp. 0944 ExxonMobil Marketing & Ref. Co. <input type="checkbox"/> 0614 ExxonMobil Pipeline Co. 0231 Mobil Oil Pipeline Co. <input type="checkbox"/> Purchase Order No.: <u>4503564083</u>		TOX/TOH <input type="checkbox"/> TPHH/IR 418.1 <input type="checkbox"/> PURGEABLE HYDROCARBON 8021 <input type="checkbox"/> 601 <input type="checkbox"/> REACTIVITY <input type="checkbox"/> CORROSIVITY <input type="checkbox"/> FLASHPOINT <input type="checkbox"/> PB, DISSOLVED <input type="checkbox"/> PB, TOTAL <input type="checkbox"/> (200.7/6010) PB, TOTAL 200.7 <input type="checkbox"/> 6010 <input type="checkbox"/> PB, TCLP <input type="checkbox"/> METALS, TOTAL RCRA <input type="checkbox"/> METALS TCLP <input type="checkbox"/> TCLP FULL <input type="checkbox"/> VOA <input type="checkbox"/> SEMI-VOA <input type="checkbox"/> PEST <input type="checkbox"/> HERB <input type="checkbox"/> PCB/PEST 8081/8082 <input type="checkbox"/> PCB ONLY <input type="checkbox"/> PNA/PAH 8100 <input type="checkbox"/> 8310 <input type="checkbox"/> 8270 <input type="checkbox"/> SEMI-VOL. 8270 <input type="checkbox"/> 625 <input type="checkbox"/> VOL. 8260 <input type="checkbox"/> 624 <input type="checkbox"/> O&G IR 413.1 <input type="checkbox"/> GRAV. 413.2 <input type="checkbox"/> 1664 <input type="checkbox"/> OXYGENATES (?) 8260 <input type="checkbox"/> MTBE 8021 <input type="checkbox"/> 8260 <input type="checkbox"/> BTEX 8021 <input type="checkbox"/> 602 <input type="checkbox"/> TPH/GC 8015 GRO <input type="checkbox"/> 8015 DRO <input type="checkbox"/> CONTAINER SIZE _____ NO. OF CONTAINERS _____	
SAMPLE I.D. _____ DATE _____ TIME _____ COMP. _____ GRAB _____ MATRIX _____ H ₂ O _____ SOIL _____ AIR _____ PRESERVATIVE _____ <u>M-2.5</u> <u>11/13/03</u> <u>11:30</u> <u>X</u> <u>X</u> <u>X</u> <u>TCE</u> <u>RN-18</u> <u>"</u> <u>13:55</u> <u>X</u> <u>X</u> <u>X</u> <u>"</u> <u>EWALN-12</u> <u>"</u> <u>14:05</u> <u>X</u> <u>X</u> <u>X</u> <u>"</u>		REMARKS: <u>TPH - ASD</u> <div style="text-align: center; font-size: 2em; font-weight: bold;">RUSH</div>	
TAT (* - Contact us Prior to Sending Samples) 24 HR. * <u>48 HR. TPH</u> * 72 HR. * <u>5 BUS.</u> * 8 BUS. * <u>10 BUS. BTEX</u> * 15 BUS. * <u>30 BUS.</u> *		SPECIAL DETECTION LIMITS (Specify) STANDARD "A" _____ ENHANCED "B" _____ FULL DATA "C" _____ TRRP DATA "C" _____ Relinquished By Sampler: <u>Greg Eubank</u> Relinquished: _____ Relinquished: _____	
CUSTODY RECORD		EXXONMOBIL CONTRACT NO. C57160 Way Bill # <u>842371882125</u> Cooler Temp: <u>3.6</u> Date <u>11/13/03</u> Time <u>16:45</u> Received By: _____ Date _____ Time _____ Received By: _____ Date <u>11/13/03</u> Time _____ Received By: <u>Tom Larson</u>	

Delivered to Feat

[Signature]





HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110772

<u>Report To:</u> BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph fax:	<u>Project Name:</u> H07-2 <u>Site:</u> Anthony Jal, TX <u>Site Address:</u> <u>PO Number:</u> <u>State:</u> New Mexico <u>State Cert. No.:</u> <u>Date Reported:</u> 11/26/03
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This Report Contains A Total Of 14 Pages

Excluding This Page

11/26/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Case Narrative for:
ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110772

Report To: BNC Environmental Services Tom Larson 2135 S. Loop 250 West Midland TX 79703- ph fax:	Project Name: H07-2 Site: Anthony Jal, TX Site Address: PO Number: State: New Mexico State Cert. No.: Date Reported: 11/26/03
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Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Sonia West
Senior Project Manager

11/26/03

Date



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

Certificate of Analysis Number:

03110772

Report To: BNC Environmental Services
Tom Larson
2135 S. Loop 250 West

Midland

TX

79703-

ph

fax:

Fax To:

Project Name: H07-2

Site: Anthony Jal, TX

Site Address:

PO Number:

State: New Mexico

State Cert. No.:

Date Reported: 11/26/03

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
R-20'	03110772-01	Water	11/20/03 2:10:00 PM	11/21/03 9:30:00 AM	2343	<input type="checkbox"/>
R/N-20'	03110772-02	Water	11/20/03 2:20:00 PM	11/21/03 9:30:00 AM	2343	<input type="checkbox"/>
N-12'	03110772-03	Water	11/20/03 2:30:00 PM	11/21/03 9:30:00 AM	2343	<input type="checkbox"/>
E Wall N #2-12'	03110772-04	Water	11/20/03 2:40:00 PM	11/21/03 9:30:00 AM	2343	<input type="checkbox"/>
M-14'	03110772-05	Water	11/20/03 2:50:00 PM	11/21/03 9:30:00 AM	2343	<input type="checkbox"/>

Sonia West

Sonia West
Senior Project Manager

11/26/03

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

11/26/03 12:17:02 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: R-20'

Collected: 11/20/2003 14:10 SPL Sample ID: 03110772-01

Site: Anthony Jal, TX

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/21/03 20:56	AM	1967570
Surr: n-Pentacosane	96.7 %	20-154	1		11/21/03 20:56	AM	1967570

Prep Method	Prep Date	Prep Initials
SW3550B	11/21/2003 11:52	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/21/03 20:07	FB	1968565
Surr: 1,4-Difluorobenzene	90.0 %	63-122	1		11/21/03 20:07	FB	1968565
Surr: 4-Bromofluorobenzene	103 %	39-150	1		11/21/03 20:07	FB	1968565

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/21/03 20:07	FB	1968551
Ethylbenzene	ND	1	1		11/21/03 20:07	FB	1968551
Toluene	ND	1	1		11/21/03 20:07	FB	1968551
Xylenes, Total	ND	1	1		11/21/03 20:07	FB	1968551
Surr: 1,4-Difluorobenzene	88.6 %	77-126	1		11/21/03 20:07	FB	1968551
Surr: 4-Bromofluorobenzene	102 %	66-145	1		11/21/03 20:07	FB	1968551

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/26/03 12:17:28 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: R/N-20'

Collected: 11/20/2003 14:20

SPL Sample ID: 03110772-02

Site: Anthony Jal, TX

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	49	5	1		11/21/03 21:35	AM	1967571
Surr: n-Pentacosane	77.2	% 20-154	1		11/21/03 21:35	AM	1967571

Prep Method	Prep Date	Prep Initials
SW3550B	11/21/2003 11:52	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/21/03 20:34	FB	1968566
Surr: 1,4-Difluorobenzene	92.7	% 63-122	1		11/21/03 20:34	FB	1968566
Surr: 4-Bromofluorobenzene	104	% 39-150	1		11/21/03 20:34	FB	1968566

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/21/03 20:34	FB	1968552
Ethylbenzene	ND	1	1		11/21/03 20:34	FB	1968552
Toluene	ND	1	1		11/21/03 20:34	FB	1968552
Xylenes, Total	ND	1	1		11/21/03 20:34	FB	1968552
Surr: 1,4-Difluorobenzene	99.5	% 77-126	1		11/21/03 20:34	FB	1968552
Surr: 4-Bromofluorobenzene	98.0	% 66-145	1		11/21/03 20:34	FB	1968552

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/26/03 12:17:30 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: N-12'

Collected: 11/20/2003 14:30

SPL Sample ID: 03110772-03

Site: Anthony Jal, TX

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	7.7	5	1		11/21/03 22:14	AM	1967573
Surr: n-Pentacosane	91.1 %	20-154	1		11/21/03 22:14	AM	1967573

Prep Method	Prep Date	Prep Initials
SW3550B	11/21/2003 11:52	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/21/03 21:01	FB	1968567
Surr: 1,4-Difluorobenzene	91.0 %	63-122	1		11/21/03 21:01	FB	1968567
Surr: 4-Bromofluorobenzene	96.3 %	39-150	1		11/21/03 21:01	FB	1968567

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/21/03 21:01	FB	1968553
Ethylbenzene	ND	1	1		11/21/03 21:01	FB	1968553
Toluene	ND	1	1		11/21/03 21:01	FB	1968553
Xylenes, Total	ND	1	1		11/21/03 21:01	FB	1968553
Surr: 1,4-Difluorobenzene	96.5 %	77-126	1		11/21/03 21:01	FB	1968553
Surr: 4-Bromofluorobenzene	102 %	66-145	1		11/21/03 21:01	FB	1968553

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/26/03 12:17:32 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: E Wall N #2-12'

Collected: 11/20/2003 14:40 SPL Sample ID: 03110772-04

Site: Anthony Jal, TX

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	ND	5	1		11/21/03 23:32	AM	1967575
Surr: n-Pentacosane	89.4 %	20-154	1		11/21/03 23:32	AM	1967575

Prep Method	Prep Date	Prep Initials
SW3550B	11/21/2003 11:52	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/21/03 21:28	FB	1968568
Surr: 1,4-Difluorobenzene	88.7 %	63-122	1		11/21/03 21:28	FB	1968568
Surr: 4-Bromofluorobenzene	100 %	39-150	1		11/21/03 21:28	FB	1968568

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/21/03 21:28	FB	1968555
Ethylbenzene	ND	1	1		11/21/03 21:28	FB	1968555
Toluene	ND	1	1		11/21/03 21:28	FB	1968555
Xylenes, Total	ND	1	1		11/21/03 21:28	FB	1968555
Surr: 1,4-Difluorobenzene	93.8 %	77-126	1		11/21/03 21:28	FB	1968555
Surr: 4-Bromofluorobenzene	104 %	66-145	1		11/21/03 21:28	FB	1968555

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/26/03 12:17:34 PM



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: M-14'

Collected: 11/20/2003 14:50 SPL Sample ID: 03110772-05

Site: Anthony Jal, TX

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Diesel Range Organics	5.5	5	1		11/22/03 0:11 AM		1967576
Surr: n-Pentacosane	73.9 %	20-154	1		11/22/03 0:11 AM		1967576

Prep Method	Prep Date	Prep Initials
SW3550B	11/21/2003 11:52	DMN

GASOLINE RANGE ORGANICS			MCL	SW8015B	Units: mg/Kg		
Gasoline Range Organics	ND	0.1	1		11/21/03 21:55 FB		1968569
Surr: 1,4-Difluorobenzene	92.3 %	63-122	1		11/21/03 21:55 FB		1968569
Surr: 4-Bromofluorobenzene	105 %	39-150	1		11/21/03 21:55 FB		1968569

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/Kg		
Benzene	ND	1	1		11/21/03 21:55 FB		1968556
Ethylbenzene	ND	1	1		11/21/03 21:55 FB		1968556
Toluene	ND	1	1		11/21/03 21:55 FB		1968556
Xylenes, Total	ND	1	1		11/21/03 21:55 FB		1968556
Surr: 1,4-Difluorobenzene	99.2 %	77-126	1		11/21/03 21:55 FB		1968556
Surr: 4-Bromofluorobenzene	100 %	66-145	1		11/21/03 21:55 FB		1968556

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

11/26/03 12:17:36 PM

Quality Control Documentation



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Diesel Range Organics
Method: SW8015B

WorkOrder: 03110772
Lab Batch ID: 33539

Method Blank

Samples in Analytical Batch:

RunID: HP_V_031121B-1967563 Units: mg/Kg
Analysis Date: 11/21/2003 16:24 Analyst: AM
Preparation Date: 11/21/2003 11:52 Prep By: DMN Method SW3550B

Lab Sample ID	Client Sample ID
03110772-01A	R-20'
03110772-02A	R/N-20'
03110772-03A	N-12'
03110772-04A	E Wall N #2-12'
03110772-05A	M-14'

Analyte	Result	Rep Limit
Diesel Range Organics	ND	5.0
Surr: n-Pentacosane	84.2	20-154

Laboratory Control Sample (LCS)

RunID: HP_V_031121B-1967564 Units: mg/Kg
Analysis Date: 11/21/2003 17:03 Analyst: AM
Preparation Date: 11/21/2003 11:52 Prep By: DMN Method SW3550B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	83	83	100	65	150

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110718-02
RunID: HP_V_031121B-1967567 Units: mg/Kg
Analysis Date: 11/21/2003 19:00 Analyst: AM
Preparation Date: 11/21/2003 11:52 Prep By: DMN Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	83	76	88	83	82	95	7.4	50	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/26/03 12:18:13 PM



Quality Control Report

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

ExxonMobil Refining & Supply Company

H07-2

Analysis: Purgeable Aromatics

Method: SW8021B

WorkOrder: 03110772

Lab Batch ID: R98707

Method Blank

Samples in Analytical Batch:

RunID: HP_R_031121A-1968547 Units: ug/Kg

Lab Sample ID

Analysis Date: 11/21/2003 17:54 Analyst: FB

Client Sample ID

03110772-01A

R-20'

03110772-02A

R/N-20'

03110772-03A

N-12'

03110772-04A

E Wall N #2-12'

03110772-05A

M-14'

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	93.8	77-126
Surr: 4-Bromofluorobenzene	102.7	66-145

Laboratory Control Sample (LCS)

RunID: HP_R_031121A-1968546 Units: ug/Kg

Analysis Date: 11/21/2003 17:00 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	52.3	105	81	123
Ethylbenzene	50	51.2	102	82	123
Toluene	50	52.7	105	82	124
Xylenes, Total	150	154.2	103	81	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110772-01

RunID: HP_R_031121A-1968549 Units: ug/Kg

Analysis Date: 11/21/2003 18:21 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20.5	103	20	21.6	108	4.88	32	38	136
Ethylbenzene	ND	20	19.3	96.3	20	19.9	99.3	3.09	32	21	138
Toluene	ND	20	19.7	98.3	20	22.1	110	11.5	34	29	137
Xylenes, Total	ND	60	58	96.7	60	59.9	99.8	3.22	34	10	143

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/26/03 12:18:16 PM



Quality Control Report

ExxonMobil Refining & Supply Company

H07-2

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Analysis: Gasoline Range Organics
Method: SW8015B

WorkOrder: 03110772
Lab Batch ID: R98708

Method Blank

RunID: HP_R_031121B-1968562 Units: mg/Kg
Analysis Date: 11/21/2003 17:54 Analyst: FB

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	90.7	63-122
Surr: 4-Bromofluorobenzene	100.3	39-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
03110772-01A	R-20'
03110772-02A	R/N-20'
03110772-03A	N-12'
03110772-04A	E Wall N #2-12'
03110772-05A	M-14'

Laboratory Control Sample (LCS)

RunID: HP_R_031121B-1968561 Units: mg/Kg
Analysis Date: 11/21/2003 17:27 Analyst: FB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.914	91	70	130

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 03110772-01
RunID: HP_R_031121B-1968563 Units: mg/Kg
Analysis Date: 11/21/2003 19:14 Analyst: FB

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.926	99.8	0.9	0.889	95.8	4.02	50	26	147

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

11/26/03 12:18:19 PM

*Sample Receipt Checklist
And
Chain of Custody*



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder: 03110772

Date and Time Received: 11/21/03 9:30:00 AM

Temperature: 3.4°C

Received By: R_R

Carrier name: FedEx

Chilled by: Water Ice

- | | | | |
|--|--|-----------------------------|--|
| 1. Shipping container/cooler in good condition? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 2. Custody seals intact on shipping container/cooler? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. Custody seals intact on sample bottles? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Chain of custody signed when relinquished and receive | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 6. Chain of custody agrees with sample labels? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Samples in proper container/bottle? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Sample containers intact? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. All samples received within holding time? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. Container/Temp Blank temperature in compliance? | Ye <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Water - VOA vials have zero headspace | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |
| 13. Water - pH acceptable upon receipt? | Ye <input type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input checked="" type="checkbox"/> |

SPL Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance

Issues:

Client Instructions:

03110772

[illegible]

Via FedEx

842402006103 CSPO 178

May 1, 2003 6:09PM
Apr 28 03 03:00P

JUDY ROBERTS

No. 3016 P. 4/7
5053938537

P. 1

ATTN: Tom / BAL

915-686-0186

Certificate of Waste Status

NMOCD 711 FACILITY: J&L LANDFARM, INC.

GENERATOR Exxon Mobil Corporation

GENERATING SITE Exxon Mobil Pipeline Pump Station, 2 miles SW of NM

SEC 25 (SW 1/4) TOWNSHIP 25-S RANGE 36-E

COUNTY Lea STATE NM

WASTE DESCRIPTION Crude oil impacted soils WASTE QTY: 4,000

TRUCKING COMPANY _____

EXEMPT WASTE _____

As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the EPA (Environmental Protection Agency). Waste is generated from oil and gas exploration and production operations; exempt from RCRA (Resource Conservation and Recovery Act, Subtitle C regulations). I do certify that hazardous or listed waste pursuant to EPA provisions has not been added or mixed with the waste, nor mixed with any non-exempt material.

NON-EXEMPT WASTE X

As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as defined by the EPA's (Environmental Protection Agency) July 1988 Regulatory determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR Part 261 to verify the nature as non-hazardous. I further certify that to my knowledge "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3.

I certify that this waste has been surveyed for Naturally Occurring Radioactive Material (NORM) and NORM concentrations do not exceed that listed in 20 NMAC 3.1 Subpart 1402. C and D.

COMPANY AGENT _____

(Original Signature)

Michael A. Lemerre Project Manager, Exxon Mobil

(Name)

ADDRESS 1001 Wapahannock Trail, Riverside, RI 02915

DATE 5/1/03

PH 401.434.7358

May 1, 2003 6:10PM

Apr 28 03 03:00p

JUDY ROBERTS

No. 3016 P. 5/7

5053938537

P. 2

TOM/BAE
FAX-915-686-0186

Director I
1625 N. French Dr., Hobbs, NM 88240
Director II
811 South First, Artesia, NM 88210
Director III
1000 Rio Brazos Road, Artesia, NM 87410
Director IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>Exxon Mobil Corporation</u>
2. Management Facility Destination <u>J & L Landfill Inc.</u>	5. Originating Site <u>2 miles SW of Jal, NM</u>
3. Address of Facility Operator <u>P.O. Box 356 Hobbs, NM 88241</u>	6. Transporter
7. Location of Material (Street Address or ULSTR) <u>SW 1/4, SEC 25, T2S-5, R-36-E</u>	8. State <u>NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. <u>Attached</u> All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL: Crude oil impacted soils associated with a former Exxon Mobil Pipeline Company predecessor company, Humble Pipeline Company, pump station that was dismantled around 1946. Site is located approximately 2 miles SW of Jal, NM. Soil assessment results indicate approximately 4,000 cubic yards of soil may have been impacted. Excavation of the soil will generate the waste.

Estimated Volume 4,000 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE Judy L. Roberts TITLE: President DATE: 5/21/03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: JUDY L. ROBERTS / JALLANDFAIR TELEPHONE NO.: 505-393-9697

(This space for State Use)

APPROVED BY: Chris Williams TITLE: Risk Supervisor DATE: 5/21/03

APPROVED BY: _____ TITLE: _____ DATE: _____