APPENDIX I-1

Site Investigation Report

SITE INVESTIGATION REPORT

FORMER FLOUR MILL FACILITY
800 DERR STREET
VALLEJO, CALIFORNIA

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SITE INVESTIGATION REPORT

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1.0 INTRODUCTION

This Site Investigation Report (Report) was prepared on behalf of General Mills Operations, Inc. (General Mills) for the Former Flour Mill Facility (Site) located at 800 Derr Street in Vallejo, California (Figures 1-1 and 1-2). The Site is approximately 30 acres in area and was originally developed and used as a flour processing mill. Operations historically conducted on-Site included the cleaning, processing, bleaching, and packaging of flour and other General Mills products. General Mills ceased plant operations in October 2004 and intends to sell the Site.

A Phase I Environmental Site Assessment (ESA) and a Phase II ESA, performed by Clayton Group Services, Inc. (CGS) for a potential buyer in 2005, revealed that soil and groundwater beneath the Site were impacted by total petroleum hydrocarbons (TPH), at concentrations that could potentially impact or limit future use of the property. As a consequence, General Mills decided to further evaluate the nature and extent of the environmental impacts to the Site from historical operations. Preliminary investigation activities included an underground storage tank investigation and the installation of five monitoring wells and advancement of one geotechnical boring in January 2006. Upon review of the preliminary subsurface investigation results, additional characterization activities were warranted in select portions of the Site to further delineate the extent of TPH in soil and groundwater. Additional characterization activities also included commencement of a monthly groundwater monitoring program in February 2006. This Report documents the work conducted at the Site in January and February 2006, presents the results of the Site investigations and groundwater monitoring events, and provides recommendations for future work at the Site.

2.0 SITE BACKGROUND

This section summarizes the historical information gained through a review of the Solano County Department of Resource Management (County) environmental files and previous historical Site investigation reports provided by General Mills. The Site is located at 800 Derr Street in Vallejo, California. It lies along the northeast side of Mare Island Strait, an estuarine waterway adjacent to the San Pablo Bay, which is the northern extent of the San Francisco Bay. The Site had been operated as a flour mill from 1869 to October 2004. Site operations involved the unloading of grain, bleaching and milling the grain, and packaging of the processed grain. Figure 1-2 illustrates the location of current and select former buildings.

Historic potential environmental concerns include 13 former USTs used to store petroleum hydrocarbon fuels, seven former ASTs used to store petroleum hydrocarbon fuels, a machine shop/sheet metal working area, the use and storage of fumigants and a printing shop area. Additionally, the western half of the property was subject to the importation of fill material to raise the land surface above mean sea level. Figure 2-1 illustrates the location of each of these identified potential areas of concern. An assessment of each historical potential area of concern listed above follows. This assessment is based on the Phase I and Phase II ESAs conducted by CGS in 2005 and on a historical records review. Soil and grab groundwater analytical results reported in CGS's Phase II ESA are included in Appendix A.

USTs Containing Petroleum Hydrocarbon Fuels

A total of 13 USTs were identified as being potential areas of concern for the Site. These USTs are identified as tanks T-1 through T-13. Environmental impacts associated with the operations of tanks T-1 through T-7 were investigated from 1994 through 1996 and environmental impacts associated with the use of tank T-8 were investigated in 2003. Tanks T-1 through T-7 were closed by Solano County in 1996 and tank T-8 was closed in 2004. The Solano County closure letter dated August 23, 2004 is included as Appendix B. Additional information regarding the history, contents, and closure of these USTs is included in Table 2-1.

In the October 2005 Phase I ESA Report prepared by CGS, seven additional USTs were reported to exist on-Site, based on information contained on a 1938 Sanborn map (Appendix C). Due to their age, these tanks were not permitted by the County and not known to exist. These seven USTs were grouped in five areas of concern, Area A and Areas C through F in CGS Phase I ESA. Upon Malcolm Pirnie review of CGS Phase I ESA and historical Site information, the USTs reported by CGS to be in Area A and Area E were determined to be tanks T-7 and T-6, respectively, as further described in Section 3 and illustrated on Figure 2-1. Hence, the number of additional USTs identified as potential areas of concern is five (not seven).

CGS conducted a Phase II ESA in the vicinity of the five areas of concern in November 2005 to evaluate their potential environmental impacts. Soil and grab groundwater samples collected from borings advanced in the areas of concern were analyzed for TPH as gasoline (-G), TPH as diesel fuel (-D), and TPH as motor oil (-MO) by United States Environmental Protection Agency (USEPA) Method 8015 and volatile organic compounds (VOCs) by USEPA Method 8260. Results of the Phase II ESA revealed elevated concentrations of TPH in the grab groundwater samples collected. Results of the Phase II in the areas of concern and their potential environmental impacts are further discussed in Sections 3 and 7 of this report.

ASTs containing Petroleum Hydrocarbon Fuels

A total of seven AST containing TPH were identified as being potential areas of concern for the Site. In the October 2005 Phase I ESA Report prepared by CGS, one additional AST was reported to exist on-Site, based on information contained on the 1919 and 1938 Sanborn maps, (Appendix C). This additional AST is located in Area B in CGS's Phase I ESA. Upon Malcolm Pirnie review of CGS's Phase I ESA Report and historical Site information, the AST reported by CGS as Area B was determined to be an AST storing water used for the fire suppression system, as further described in Section 3 and illustrated on Figure 2-1. Hence, the number of ASTs identified as potential areas of concern is seven.

Tanks AST-1 through AST-3 were located southeast of the New Warehouse in the vicinity of tank T-7. Tanks AST-4 and AST-5 were located in the vicinity of tanks T-3 and T-4. Tank AST-6 was located northeast of the Mill Run in the vicinity of tank T-6. Environmental

impacts in the vicinity of tanks T-3 and T-4; T-5 and T-6; and T-7 were investigated from 1994 to 1996 and received closure in September 1996.

Aboveground tank AST-7 was located along the eastern side of the Grain Elevator Building. A spill reportedly occurred in 1993, releasing approximately 300 gallons of food grade mineral oil spilled to the ground surface. During the Phase II ESA, CGS advanced two borings B-6 and B-7 in the vicinity of tank AST-7. Soil samples collected from both borings were analyzed for TPH-G, TPH-D, and TPH-MO by USEPA Method 8015. Results indicated low TPH-D and TPH-MO concentrations in soil ranging from 1.6 milligrams per kilogram (mg/kg) to 11 mg/kg. Refusal in soil borings B-6 and B-7 due to the presence of bedrock occurred at 6 feet below ground surface (bgs) and 7.5 feet bgs, respectively. No groundwater was encountered during drilling. Hence, no groundwater samples were collected from these borings.

There are no aboveground tanks remaining on Site.

Machine Shop

A machine shop was located in the Original Mill Warehouse according to the 1919 Sanborn maps and in the New Warehouse approximately from 1950 to 1970, according to CGS. During the Phase II ESA, CGS advanced two soil borings B-8 and B-9 in the Machine Shop. Soil and grab groundwater samples collected from borings B-8 and B-9 were analyzed for TPH-G, TPH-D, and TPH-MO by USEPA Method 8015 and VOCs by USEPA Method 8260. Laboratory results reported concentrations to be below analytical method reporting limits for the constituents analyzed, except for TPH-D and TPH-MO in the grab groundwater sample collected from boring B-9, at concentrations of 720 micrograms per liter (µg/L) and 1,600 µg/L, respectively. No borings were advanced at the former location of the machine shop in the Original Warehouse.

Storage and Use of Fumigants

Fumigants were historically used and stored at the Site from at least 1938 to 2004. Fumigants were historically stored in the former Fumigation Building located in the western portion of the Site close to the Bay and more recently fumigants were stored in the Garage in the northeast portion of the Site close to the entrance gate. During the Phase II ESA, CGS advanced

soil boring B-15 in the western portion of the Site where the former Fumigation Building was formerly located and soil boring B-3 inside the Garage. One soil and one grab groundwater sample were collected from both borings and analyzed for VOCs by USEPA Method 8260 and organophosphate pesticides by USEPA Method 8082. Laboratory results reported concentrations to be below analytical method reporting limits for the constituents analyzed, except for tetrachloroethene in the soil sample collected from B-15 at a concentration of 0.18 mg/kg, which exceeds its Tier 1 ESL of 0.087 mg/kg.

Printing operations

Printing operations were conducted within the former Bag Factory Building in the southern portion of the Site as indicated on the 1938 Sanborn map and within the Original Mill Building in the western portion of the Site as indicated on the 1889 Sanborn map. During the Phase II ESA, CGS advanced boring B-17 inside the Mill Run Building which was partly built on top of the Former Bag Factory Building where the printing operations occurred. One soil and one grab groundwater sample were collected from the soil boring and analyzed for TPH-G, TPH-D, and TPH-MO by USEPA Method 8015, VOCs by USEPA Method 8260. In addition, the soil sample was analyzed for metals by USEPA Method 6010. TPH-G, TPH-D, TPH-MO, and VOCs were not detected in the soil sample above the method reporting limit. Metals concentrations reported in the soil sample were within the range of probable background concentrations. TPH-D was detected at a concentration of 73 µg/L and TPH-G, TPH-MO, and VOCs were reported to be below method reporting limits in the grab groundwater sample collected. No soil borings were advanced within the former printing area of the former Original Mill Building in the western portion of the Site.

Importation of Fill Material

Based on the review of historical Sanborn maps, fill material of unknown origin was imported at various times throughout the Site's operational history to raise the land surface and extend the western portion of the Site. During the November 2005 Phase II ESA, CGS advanced six borings, B-18 through B-23, in the western portion of the Site. One shallow soil sample was

collected from each boring and was analyzed for TPH-G, TPH-D, and TPH-MO by USEPA Method 8015 and for metals by USEPA Method 6010. One grab groundwater sample was collected from each boring and was analyzed for TPH-G, TPH-D, and TPH-MO by USEPA Method 8015 and for VOCs by USEPA Method 8260. TPH-D and TPH-MO were detected in soil borings B-19, B-20, and B-21 at concentrations ranging from 2.6 mg/kg to 280 mg/kg. Metals concentrations reported in the soil sample were within the range of probable background concentrations, except for vanadium in soil boring B-19 (280 mg/kg) and lead in soil boring B20 (180 mg/kg). The laboratory report identified TPH-D and TPH-MO in the six grab groundwater samples collected, with maximum concentrations of 9,100 µg/L and 34,000 µg/L, respectively in boring B-21. 2-Butanone was the only VOC reported above the method reporting limit, and only in the sample collected from boring B-19 at a concentration of 3.7 µg/L.

Based on the results of the Phase I and Phase II ESAs, as presented by CGS, Site-related constituents were detected in both soil and grab groundwater samples collected in the vicinity of areas of concern A through F, in the vicinity of the Machine Shop (soil boring B-9), and in the western portion of the Site (B-18 through B-23) in November 2005. Except for two minor localized areas in the western portion of the Site (tetrachloroethene in boring B-15 and lead in boring B-20), TPH appears to be the primary constituent of concern for the Site.

3.0 UST INVESTIGATION

This section describes and presents the results of the activities related to the investigation of the potential historic USTs reported to exist by CGS at the Site, including a review of the Sanborn maps and potholing on-Site. The investigation activities described below were conducted in January 2006.

3.1 Review of Sanborn Maps

Review of the historical Sanborn maps of the Site by Malcolm Pirnie revealed additional information on the potential locations of the former areas of concern identified by CGS in their Phase I ESA. As mentioned previously, the Phase I ESA conducted by CGS identified seven USTs and one AST on the 1938 Sanborn map. The seven USTs and one AST were grouped in six areas of concern, Areas A through F, including:

- Area A - one 720-gallon fuel oil UST
- Area B - one 140,000-gallon fuel oil AST
- Area C - two 100-gallon fuel oil USTs
- Area D - two 280-gallon gasoline USTs
- Area E - one 200-gallon fuel oil UST
- Area F - one 10,000-gallon gasoline UST

Malcolm Pirnie's review of the 1938 Sanborn map indicated that:

- The UST in Area A is in fact former tank T-7, a 720-**barrel** (corresponding to 32,000 **gallon**) concrete UST that was closed in place by Solano County in 1996.
- The UST in Area B was a former water AST used for the fire suppression system, and not a fuel oil AST. The AST was mislabeled on the 1938 Sanborn map and is shown to be linked to fire hydrants throughout the Site. This tank is labeled as a water tank on other historic Sanborn maps prepared for the Site.

- Area E and the location of the bag factory were misplaced on Figure 2 of the CGS Phase II ESA Report. The Mill Run was partially built on the location of the former Bag Factory. Even though their descriptions are different according to the Phase I ESA report and the 1938 Sanborn map, their location is similar, and thus the UST reported by CGS as Area E is in fact former tank T-6, closed by the County in 1996.

Based on Malcolm Pirnie's review of the available documentation, the number of USTs identified as potential areas of concern is five. Additional information on these USTs is included in Table 3-1.

3.2 Field Activities

Using the results of the Sanborn map review, Malcolm Pirnie proposed investigating Area A to confirm that T-7 is still in place; and Areas C, D, and F to investigate the potential presence of former USTs. Areas B and E were not investigated for the reasons stated in Section 3.1. Engineering/Remediation Resources Group (ERRG) was contracted by Malcolm Pirnie to advance test pits in Areas A, C, D, and F. Field work occurred on January 5, 2006 under the direct supervision of a Malcolm Pirnie engineer. The location of the investigated areas of concern is illustrated on Figure 3-1. As a results of the field investigation activities, Malcolm Pirnie encountered the five suspect USTs. The removal and closure of the five USTs will be reported separately.

4.0 PRELIMINARY SITE INVESTIGATION

This section describes the preliminary investigation activities conducted at the Site between January 6, 2006 and January 12, 2006. The preliminary investigation activities consisted of installing five monitoring wells and advancing one geotechnical boring on Site. Figure 4-1 illustrates the location of the five monitoring wells and one geotechnical boring. The purpose of the preliminary investigation is to verify the subsurface impacts reported by CGS and obtain Site specific groundwater data, since CGS collected only grab-groundwater samples from open boreholes. The methods and procedures followed by Malcolm Pirnie staff during this investigation are described in detail in Appendix D, Generally Accepted Procedures (GAPs) and are summarized below.

Prior to initiating the preliminary investigation activities, a Well Construction Permit was obtained from the Solano County Department of Resource Management to install five monitoring wells (MP-1 through MP-5) and advance one geotechnical boring (GB-1). California Utility Surveys, an underground utility location firm, performed an active survey at the proposed well locations for underground obstructions.

Drilling and well construction activities were performed by ResonantSonic International, Inc., a California-licensed drilling company, under the supervision of a Malcolm Pirnie geologist between January 6 and 10, 2006. Five soil borings were advanced to a depth of 15.5 feet bgs using a truck-mounted drill rig equipped with hollow stem augers and were completed as monitoring wells MP-1 through MP-5. The borings were continuously cored for lithologic identification and soil samples for laboratory analysis were collected at selected intervals using a California-modified split-spoon sampler lined with brass tubes. During drilling operations, a photoionization detector (PID) was be used to monitor for the presence and concentration of organic vapors in the soil core.

The geotechnical boring was advanced to a depth of 13 feet bgs. Two Shelby tube samples were collected from GB-1 at depths of 5 to 7 feet bgs and 11 to 13.5 feet bgs. The Shelby tubes were capped and stored until delivery to the geotechnical laboratory. The samples were transported to Ninyo & Moore located in Oakland, California and tested for geotechnical parameters.

The monitoring wells were 2 inches in diameter and constructed of a Schedule 40 PVC riser and screen. The well screen is 10 feet long and 0.01-inch slot size. A sand pack was placed around the well screen extending to approximately 0.5 feet above the top of the screen. An approximate 1-foot thick bentonite seal was placed above the sand pack and the remaining portion of the annulus was grouted by a cement-bentonite grout. The well was completed with a flush-mounted cover or stickup casing at the surface. Groundwater monitoring well construction details for MP-1 through MP-5 are included in Table 4-1, and soil borings and well construction diagrams are included in Appendix E.

One soil sample was collected between approximately 4 to 5 feet bgs (above the water table) from each soil boring for laboratory analysis. Samples were analyzed for TPH-G, TPH-D, and TPH-MO by USEPA Method 8015, benzene, toluene, ethylbenzene, and total xylenes (BTEX) by USEPA Method 8021, and polynuclear aromatics (PNAs) by USEPA Method 8270. Samples were accompanied by properly completed chain-of-custody forms included as Appendix F.

Wells MP-1 through MP-5 were developed by bailing, surging, and pumping techniques implemented by ResonantSonic International, Inc. on January 10 and 11, 2006.

The five monitoring wells and the geotechnical boring were surveyed for location (northing and easting) and top of casing elevation on January 11, 2006 by CSS Environmental Services, Inc. (C.S.S.), a land surveying company licensed by the State of California. Surveying data are included as Appendix G.

5.0 ADDITIONAL INVESTIGATION IN AREA C

This section describes the additional investigation activities conducted in Area C between January 31, 2006 and February 10, 2006. The additional investigation activities were conducted in Area C, based on the results of the preliminary field investigation, as described in Section 6 of this report. The supplemental investigation consisted of advancing 24 soil borings and installing three monitoring wells within an area of approximately 250-feet by 250-feet. Figure 4-1 illustrates the locations of the three monitoring wells installed, and Figure 5-1 illustrates the locations of the 24 soil borings advanced on-Site. The methods and procedures followed by Malcolm Pirnie staff during this supplemental investigation are described in detail in Appendix D: GAPs, and are summarized below.

Prior to initiating the drilling activities, a Well Construction Permit was obtained from the Solano County Department of Resource Management to advance 24 soil borings and install three monitoring wells (MP-6 through MP-8). California Utility Surveys, an underground utility location firm, performed an active survey at the proposed well locations for underground obstructions.

Drilling and well construction activities were performed by ResonantSonic International, Inc., under the supervision of a Malcolm Pirnie geologist. Twenty-four soil borings (SB1 through SB24) were advanced to depths ranging from 10 feet bgs to 20 feet bgs on January 31, 2006 and February 1 and 2, 2006 using a direct-push drill rig. Soil borings were continuously cored for lithologic evaluation and samples were collected from select intervals by cutting the acetate liner used inside the direct push rods at the appropriate depth. During drilling operations, a PID was be used to monitor for the presence and concentration of organic vapors in the soil core. Based on the field results three soil borings were advanced to a depth of 15 feet bgs, 14.5 feet bgs, and 14 feet bgs using a hollow stem auger drill rig, and were completed as monitoring wells MP-6, MP-7, and MP-8, respectively. Groundwater monitoring well construction details for MP-6 through MP-8 are included in Table 4-1. Soil boring logs and well construction diagrams are included in Appendix E.

Two to three soil samples were collected from each boring for potential laboratory analysis. Samples were collected from above the groundwater table, at the location of visually confirmed maximum TPH impact (if apparent in the field), and at the bottom of the boring. A

total of 72 soil samples were collected during this investigation but only 57 soil samples were submitted to the analytical laboratory for analysis. The 57 samples were selected depending on their spatial location, as well as visual and odorous field observations and readings. The 57 soil samples were analyzed for TPH-G, TPH-D, and TPH-MO by USEPA Method 8015. Fourteen samples were also analyzed PNAs by USEPA Method 8270 at the request of the County. Chain-of-custody forms are included as Appendix H.

Wells MP-6 through MP-8 were developed by bailing, surging, and pumping techniques implemented by ResonantSonic International, Inc. on February 6 and 7, 2006.

The 24 soil borings and three monitoring wells were surveyed for location (northing and easting) and the three monitoring wells were also surveyed for top of casing elevation on February 6 and 8, 2006 by C.S.S. The surveying data are included as Appendix G.

6.0 GROUNDWATER SAMPLING

This section describes the groundwater sampling activities conducted on Site in January and February 2006. Depth-to-water measurements and groundwater samples were collected from five monitoring wells in January and depth-to-water measurements and groundwater samples were collected from eight monitoring wells in February. Methods and procedures followed are detailed in Appendix D: GAPs, and are briefly described below.

January 2006 Groundwater Sampling Event

Environmental Sampling Services (ESS) of Martinez, California performed the January 2006 groundwater sampling event. ESS collected depth-to-water measurements from monitoring wells MP-1 through MP-5 prior to purging and sampling the wells on January 12, 2006. ESS then purged and collected a sample from each of the five wells on January 12, 2006 using the low-flow sampling methodology. Water quality parameters were monitored during purging using a flow-through cell. The groundwater samples were submitted to Severn Trent Laboratory, Inc. (STL) – San Francisco, an analytical laboratory licensed by the State of California, and analyzed for the following parameters:

- TPH-G, BTEX, 1,2-DCA, EDB, and MTBE by USEPA Method 8260.
- TPH-D and TPH-MO by USEPA Method 8015.
- PNAs by USEPA Method 8270.

February 2006 Groundwater Sampling Event

ESS collected depth-to-water measurements from monitoring wells MP-1 through MP-8 prior to purging and sampling the wells on February 9, 2006. ESS then purged and collected a sample from each of the eight wells on February 9 and 10, 2006, using the low-flow sampling methodology. Water quality parameters were monitored during purging using a flow-through cell. The groundwater samples were submitted to Curtis and Tompkins (C&T), an analytical

laboratory licensed by the State of California. The February 2006 groundwater samples were analyzed by the analysis and analytical methods as indicated in Table 6-1.

Depth-to-water measurements and field measurements collected in January and February 2006 and were recorded on the groundwater sample log sheets included in Appendix I. Chain-of-custody forms are also included in Appendix I.

7.0 SITE INVESTIGATION RESULTS

This section describes the field and laboratory results of the activities conducted at the Site in January and February 2006.

7.1 UST Investigation Results

The presence of the closed-in-place UST T-7, the two USTs in Area C, the two USTs in Area D, and the one UST in Area F were confirmed. The USTs were partially uncovered. However, the interiors were not inspected and their sizes (volumes) were only approximated. Findings of the field activities related to former USTs are described below:

- The UST in Area A, T-7 was found to have an eight-inch-thick concrete sidewall, and was backfilled with gravelly material. The top of the tank wall was encountered at approximately three feet bgs and its base was approximately 7 feet bgs. The sidewall was encountered three feet southeast of CGS boring B-10 and three feet northwest of CGS boring B-11. It appeared that boring B-10 was advanced into the tank by CGS, hence the reason for refusal at 7 feet bgs.
- Two USTs in Area C were encountered at approximately one foot bgs. The USTs were estimated to be approximately 100 gallons each, and were oriented north-south. The two tanks were positioned side-to-side, approximately eight inches apart.
- Two tank fill ports were uncovered in Area D. One fill port was visually confirmed to be connected to a UST at approximately five feet bgs. The tank was approximately 200 gallons in size and oriented north-south, positioned end-to-end, and parallel to the building. The presence of the second UST was not confirmed at that time, only the presence of the tank's fill port.
- One UST was uncovered in Area F about 25 feet northwest of the Old Bulk Building at approximately two feet bgs. The tank was oriented east-west at approximately 2 feet bgs.

Malcolm Pirnie submitted an Application *to Close an Underground Storage Tank for Hazardous Substances* to the County for the removal of the USTs in Areas C, D, and F. These USTs were removed from the Site on January 20 and 27, 2006 under oversight of the County. UST removal activities and confirmation sampling results have been submitted to the County separately. The tank closure confirmation soil sample results are summarized in Table 7-1 and are compared with the Tier 1 ESLs.

TPH-G, TPH-D, TPH-MO, and lead were detected in various confirmation soil samples. TPH-D and lead were reported above their respective Tier 1 ESLs at concentrations of 1,800 milligrams per kilogram (mg/kg) and 380 mg/kg in the confirmation sample collected from the Area C (tank T-10) excavation. TPH-MO was reported above its Tier 1 ESL at a concentration of 580 mg/kg in the confirmation sample collected from the Area D (tank T-12) excavation. Analytical results from the groundwater samples collected from MP-3 were used as confirmation groundwater results for the water contained in the Area F excavation and are summarized in Section 7.3.3.

7.2 Soil Investigation Results

This section presents the soil results from the investigations conducted at the Site in January and February 2006. The results for soil borings SB1 through SB24 and monitoring wells MP-1, MP-3, MP-6, MP-7, and MP-8, are presented as the Area C results. The results for monitoring wells MP-2, MP-4, and MP-5 are presented as the sitewide results. Laboratory results for soil samples collected from beneath the Site (Sections 7.2.2) are compared to Tier 1 screening level concentrations, as presented in the San Francisco Bay Regional Water Quality Control Board's Screening *for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final, February 2005, to evaluate which of the constituents identified beneath the Site are of concern and warrant further assessment. The Tier 1 ESLs presented herein are for sites with shallow groundwater (less than 3 meters bgs) that will potentially undergo residential site use, and where shallow groundwater is not a drinking water resource.

7.2.1 Subsurface Lithology

The soil lithology encountered during the Site investigation varied depending upon location, but primarily consisted of unconsolidated fill material with thin bay and alluvial deposits overlying weathered upper Cretaceous sandstones and shales or overlying Bay Mud. The unconsolidated material mainly consisted of gravelly clayey silt to sandy silt with occasional clay lenses, brick, wood, and concrete fragments and were encountered in the upper eight to 12 feet bgs, and even to 16 feet bgs in the southwest portion of Area C (soil boring SB12). The thickness of the fill material tends to increase to the west. Weathered sandstones and shales were encountered in the eastern portion of the Site starting at 8.5 feet bgs to 13 feet bgs. Bay Mud was encountered in the western portion of the Site near the shore at various depths starting at 8 feet bgs. Figure 7-1 illustrates the location of generalized geologic cross-sections, which are included as Figures 7-2a and 7-2b.

7.2.2 Soil Analytical Results

Tables 7-2a, 7-2b, and 7-2c summarize the TPH, BTEX, and PNA laboratory results for samples collected during the preliminary investigation and the additional investigation in Area C. Tier 1 ESL concentrations are included in the tables for comparison. TPH concentrations are illustrated on Figures 7-3 (sitewide) and 7-4 (Area C). The certified analytical laboratory reports for soil samples are included in Appendices F and H.

TPH-G was detected above its reporting limit in soil samples collected from well MP-6 and 13 of the soil borings in Area C at concentrations ranging from 1.1 mg/kg (SB10 at 4.5 feet bgs) to 860 mg/kg (SB13 at 6.5 feet bgs). TPH-G concentrations were reported to exceed the Tier 1 ESL of 100 mg/kg in samples collected from the smear zone (below the groundwater surface) in ten of the Area C borings. TPH-G was reported in one (SB10 at 15.5 feet) of 22 samples collected from the base of the soil borings at a concentration exceeding the Tier 1 ESL. The remaining TPH-G concentrations were reported to be below the Tier 1 ESL or reporting limit. TPH-G was not reported above its reporting limit in soil samples collected from outside Area C.

TPH-D was detected above its reporting limit in the soil samples collected from each boring and monitoring well in Area C, at concentrations ranging from 2.8 mg/kg to 53,000 mg/kg. TPH-D was reported in 20 soil samples collected from 14 soil borings advanced in Area

C at concentrations exceeding the Tier 1 ESL of 500 mg/kg. Concentrations of TPH-D exceeded the Tier 1 ESL in the smear zone (below the groundwater surface) and were reported to range from 1,700 mg/kg to 53,000 mg/kg. TPH-D concentrations were reported to exceed the Tier 1 ESL in two soil samples collected from the vadose zone, and in four samples collected from the base of the borings (from 720 mg/kg to 4,600 mg/kg).

TPH-D was also detected above its reporting limit but well below the Tier 1 ESL in the sample collected from sitewide well MP-5 at 5 feet bgs. TPH-D was not detected above its reporting limit in the soil samples collected from the other sitewide wells, MP-2 and MP-4.

TPH-MO was detected above its reporting limit in the soil samples collected from each soil boring and monitoring well in Area C, except from the soil samples collected from MP-1 and MP-3 at 4.5 feet bgs. TPH-MO concentrations were reported to range from 5.9 mg/kg (SB22 at 14 feet bgs) to 22,000 mg/kg (SB3 at 5.5 feet bgs). Concentrations of TPH-MO were reported to exceed the Tier 1 ESL of 500 mg/kg in 18 soil samples collected from 14 borings advanced in Area C. Similar to the TPH-D exceedances, most of the exceedances were detected within the smear zone just below the water table. TPH-MO concentrations reported in 10 samples collected from the smear zone just below the groundwater table exceeded the Tier 1 ESL, ranging from 570 mg/kg to 22,000 mg/kg. TPH-MO concentrations reported in four samples collected in the vadose zone exceeded the Tier 1 ESL, ranging from 640 mg/kg to 4,000 mg/kg. TPH-MO concentrations reported in four samples collected from the base of the soil borings exceeded the Tier 1 ESL, ranging from 580 mg/kg to 1,500 mg/kg.

TPH-MO was also detected above its reporting limit but below the Tier 1 ESL in the sample collected from sitewide well MP-5 at 5 feet bgs. TPH-MO was not detected above its reporting limit in the soil samples collected from the other sitewide wells, MP-2 and MP-4.

Residual TPH-D and TPH-MO impacts appear localized within the smear zone in Area C. The TPH-D and TPH-MO concentrations reported in the Area C samples were summed as total extractable petroleum hydrocarbons (TEPH) and plotted on Figures 7-5a and 7-5b. Figure 7-5a illustrates samples collected from the vadose zone, above the shallow groundwater table. Figure 7-5b illustrates the maximum TEPH concentration reported in each boring below the water table.

Concentrations of BTEX were not reported above their respective reporting limits in the soil samples collected from borings MP-1 through MP-5. BTEX results in soil are summarized in Table 7-2b.

At the request of the County, Malcolm Pirnie analyzed selected samples for the presence of PNAs. Laboratory results identified detectable concentrations of PNAs in 10 of the 14 samples analyzed. PNA concentrations were reported to exceed their respective Tier 1 ESLs in three soil samples collected from two soil borings in Area C. Twelve PNAs were detected above their respective Tier 1 ESL in the soil sample collected from SB20 at 5.5 feet bgs. The two other Tier 1 ESL exceedances included benzo[a]pyrene detected slightly above its Tier 1 ESL in the two soil samples collected from SB20 at 9 feet bgs and MP-3 at 4.5 feet bgs. As mentioned previously, Area C was mainly constructed through importation of fill material. Considering the random nature of the fill materials, the detection of the benzo(a)pyrene may not be caused by the former Site operations. PNA soil results are summarized in Table 7-2c.

7.2.3 Geotechnical Test Results

Geotechnical laboratory results indicate that the sample collected from 5 to 7 feet bgs, which is characteristic of the fill material in the western portion of the Sites, was classified as inorganic soil or clayey silt with slight plasticity (ML) and had a moisture content of 31.1 percent (%). The soil sample collected from 11 to 13.5 feet bgs, which is characteristic of the native unconsolidated soils was classified as inorganic clay with high plasticity to organic clay (CH-OH) and had a moisture content of 75.3%. Observation of the soil in the Shelby tubes revealed the presence of petroleum hydrocarbons impacts in the soils at a depth of 5 to7 feet bgs. Geotechnical test results are summarized in Table 7-3. The geotechnical laboratory report is included in Appendix J.

7.3 Groundwater Investigation Results

This section presents shallow groundwater results from the investigations conducted at the Site in January and February 2006. The results for monitoring wells MP-1, MP-3, MP-6, MP-7, and MP-8, advanced during the additional investigation in Area C are presented as the Area C results. The results for monitoring wells MP-2, MP-4, and MP-5 are presented as the sitewide results. Laboratory results for shallow groundwater samples collected from beneath the Site

(Sections 7.3.3) are compared to Tier 1 screening level concentrations, as presented in the San Francisco Bay Regional Water Quality Control Board's Screening *for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final, February 2005, to evaluate which of the constituents identified beneath the Site are of concern and warrant further assessment. The Tier 1 ESLs presented herein are for sites with shallow groundwater (less than 3 meters bgs) that will potentially undergo residential site use, and where shallow groundwater is not a drinking water resource.

7.3.1 Groundwater Flow Direction

Table 7-4 summarizes depth-to-water measurements and calculated groundwater elevations collected on January 12, 2006 and on February 9, 2006. The shallow groundwater surface beneath at the Site was measured at depths ranging from 3.8 to 5.9 feet bgs on January 12, 2006 and 4.5 and 6.4 feet bgs on February 9, 2006. Depth-to-water measurements collected in January and February 2006 were recorded on the groundwater sample log sheets included in Appendix I.

Based on the February depth-to-water measurements and corresponding groundwater elevations, the groundwater flow direction beneath the Site was calculated to be to the west. The groundwater elevation contour map, based on the calculated groundwater elevation data for February 2006 is included as Figure 7-6.

7.3.2 Field Groundwater Quality Measurements

In January and February 2006, dissolved oxygen (DO) ranged from 0.04 mg/L to 3.31 mg/L. The dissolved oxygen in all monitoring wells in Area C was less than 1 mg/L, indicating anaerobic conditions. The pH ranged from 6.87 to 8.18 and temperatures varied from 17.44 degree Celsius (°C) to 20.15 °C. Oxidation-Reduction Potential (ORP) ranged from -388 millivolts (mV) to -56.4 mV for monitoring wells in Area C, indicating potential reducing conditions. ORP ranged from -44 mV to 75.4 mV for sitewide monitoring wells. Specific conductance was above 1,000 microSiemens (mS), in the eight wells monitored, likely due to the Site's proximity to the Bay. The specific conductance in well MW-8 was measured at 11,250 mS in February 2006. Field measurements collected in January and February 2006 were recorded on the groundwater sample log sheets included in Appendix I.

7.3.3 Groundwater Analytical Results

Table 7-5 summarizes the groundwater analytical results for samples collected in January and February 2006. Figures 7-7 and 7-8 illustrate the TEPH groundwater concentrations for the Site in February 2006 and the TEPH groundwater concentration in Area C for February 2006, respectively. The certified analytical laboratory reports for soil samples are included in Appendix K.

TPH-G was detected above its reporting limit in the samples collected from monitoring wells MP-1 and MP-6 at maximum concentrations of 130 µg/L and 79 µg/L, respectively. TPH-G was not detected above its Tier 1 ESL of 500 µg/L.

TPH-D was reported at concentrations ranging from 210 µg/L to 9,600 µg/L in the samples collected from the four monitoring wells in Area C. TPH-D was also detected in January 2006 in the sample collected from well MP-5 at a concentration of 86 µg/L, and the sample collected from well MP-2 in February 2006 at a concentration of 87 µg/L. TPH-D was reported at concentrations above its Tier 1 ESL of 640 µg/L in the groundwater samples collected from MP-1, MP-6, and MP-7 (Area C).

TPH-MO was reported in the samples collected from monitoring wells MP-1, MP-6, MP-7 and MP-8 at concentrations ranging from 460 µg/L to 3,800 µg/L. TPH-MO was detected at concentrations exceeding its Tier 1 ESL of 640 µg/L in groundwater samples collected from MP-1 and MP-7 (ranging from 640 µg/L to 3,800 µg/L).

Toluene was detected above its reporting limit in wells MP-2, MP-3, and MP-6 through MP-8 at a maximum concentration of 2.7 µg/L. Total xylenes was detected above its reporting limit in wells MP-3 and MP-6 through MP-8 at a maximum concentration of 1.5 µg/L. BTEX constituents were not reported above their respective Tier 1 ESLs.

PNAs were detected above their respective method reporting limits in two of the five samples collected in January and in four of five samples analyzed for PNAs in February. The maximum concentration of naphthalene was reported at 17 µg/L in the sample collected from well MP-3 in January 2006. The naphthalene concentration in the sample collected from well MP-3 in February 2006 decreased to 4.5 µg/L. Fluorene and phenanthrene were detected above their respective Tier 1 ESLs in the groundwater sample collected from MP-3 at concentrations of 4.7 µg/L and 10 µg/L, respectively, in January. Benzo[a]anthracene was detected above its Tier 1

ESL in the groundwater sample collected from MP-3 at a concentration of 0.2 µg/L in February 2006.

Total dissolved solids (TDS) concentrations ranged from 410 milligrams per liter (mg/L) in MP-4 to 13,300 mg/L in MP-8 in February 2006. TDS concentrations appear to be higher in the wells closer to the shoreline, such as MP-1, MP-6, MP-7, and MP-8. TDS was detected above the its secondary drinking water quality standard of 3,000 mg/L in the groundwater samples collected from MP-7 and MP-8 at concentrations of 4,170 mg/L and 13,300 mg/L, respectively, in February 2006.

Lead was analyzed in groundwater samples collected from MP-3 and MP-5 in February. Lead was not detected above its reporting limit in these two samples.

7.3.4 Comparison to CGS Groundwater Results

Results of the samples collected by Malcolm Pirnie in January and February 2006, when compared to those reported by CGS in November 2005, indicate that the grab-groundwater samples collected by CGS generally overestimated the concentration of dissolved constituent beneath the Site and cannot be reasonably relied upon for characterization purposes. Comparison of the grab-groundwater samples collected from select CGS borings to results for samples collected from nearby monitoring wells (Table 7-6 and Figure 7-9) indicates that there is a one to three order of magnitude difference that results from the different sampling methods. Additionally, Malcolm Pirnie was unable to confirm the elevated soil concentrations or potential presence of free product in Area A (tank T-7) and Area D.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of the preliminary investigation and additional investigation in Area C was to further characterize the environmental impacts to the Site from historical facility-related operations.

Based on the laboratory results for the samples collected during January and February 2006, as summarized in Section 7, the constituents of concern for the Site appear to be limited to TPH and constituents associated with petroleum hydrocarbon compounds (e.g., naphthalene). Significant subsurface impacts appear to be limited to the western potion of the Site, in the vicinity of Area C.

In this report, Malcolm Pirnie compared the soil and groundwater analytical results with the Tier 1 ESLs and identified which areas of the Site were impacted by the constituents of concern. However, Malcolm Pirnie proposes to develop Site-specific target levels for these constituents of concern to further evaluate the areas which will require additional characterization and potentially remediation. Site-specific target levels will be developed following the San Francisco Bay Regional Water Quality Control Board's *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, Interim Final, February, 2005. The proposed Site-specific target levels will be presented to the County prior to recommending or implementing further characterization activities.

9.0 FUTURE ACTIVITIES

Malcolm Pirnie plans to continue collecting groundwater samples from the Site wells on a monthly basis for an additional two months. The samples collected from the eight on-Site wells will be analyzed for the parameters described in Table 9-1 of this document. The next groundwater monitoring event is scheduled to occur in March 2006.

Additionally, Malcolm Pirnie intends to install data loggers into selected Site wells to monitor the change in Site water levels over a minimum-two week period. The purpose of this task is to evaluate the impacts tidal heights in the Bay have on groundwater flow beneath Site. Data loggers will be installed in wells MP-1, MP-2, MP-3, MP-5, and MP-8. Data loggers will be set to record water levels once every four hours throughout the time period they are in place.

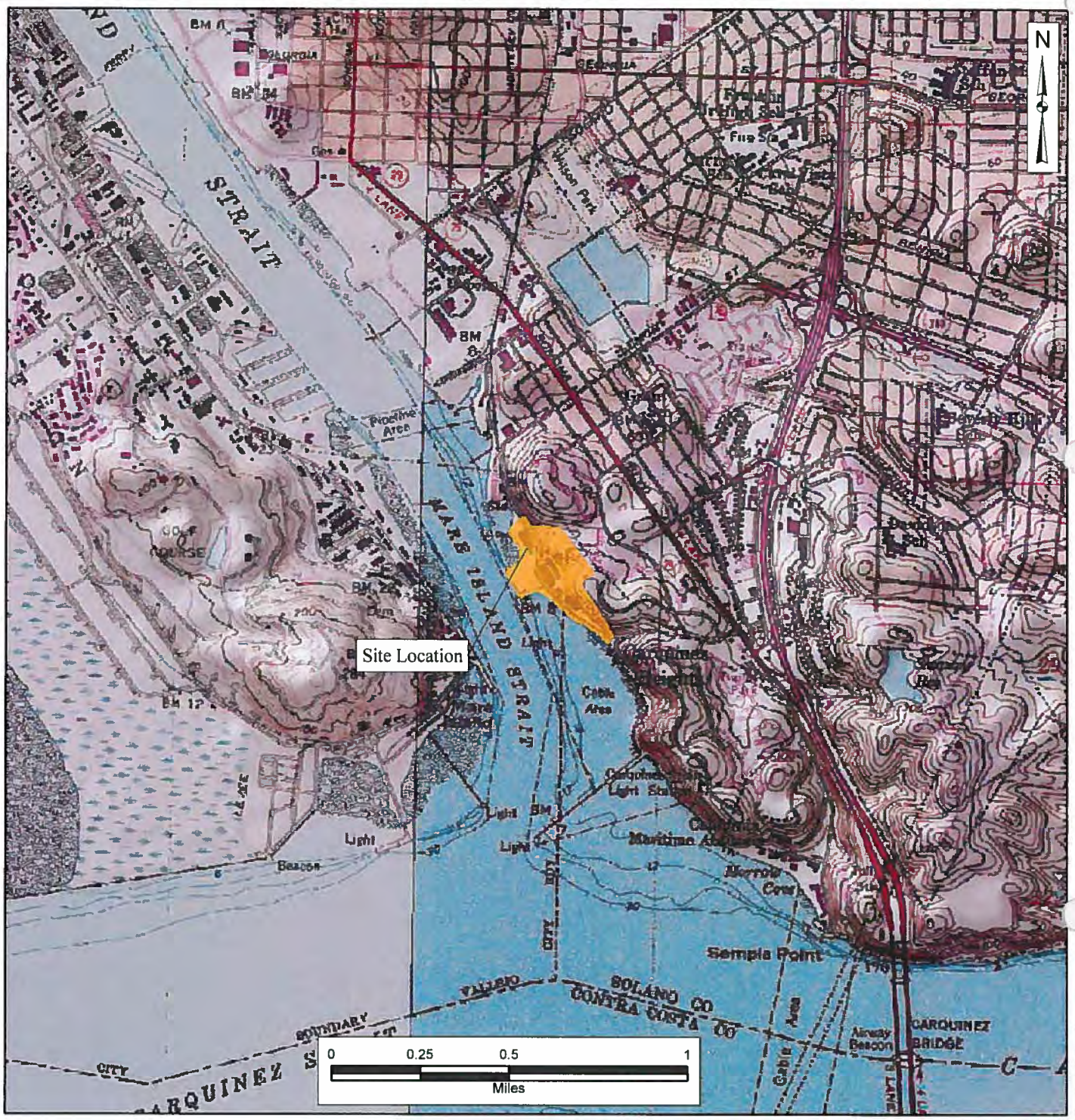
10.0 REFERENCES

Clayton Group Services, Inc., 2005. Phase II Environmental Suite Assessment Report. Prepared for Ellis Partners, LLC. December 14.

Clayton Group Services, 2005. Phase I Environmental Site Assessment Report. Prepared for Ellis Partners, LLC. October 19.

San Francisco Bay Regional Water Quality Control Board, 2005. Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final. February.

FIGURES



Legend

Site

Referenced USGS 1 24000 scale Quadrangle Maps
Benicia, CA (1980)
Mare Island, CA (1981)

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Site Location Map
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 1-1**

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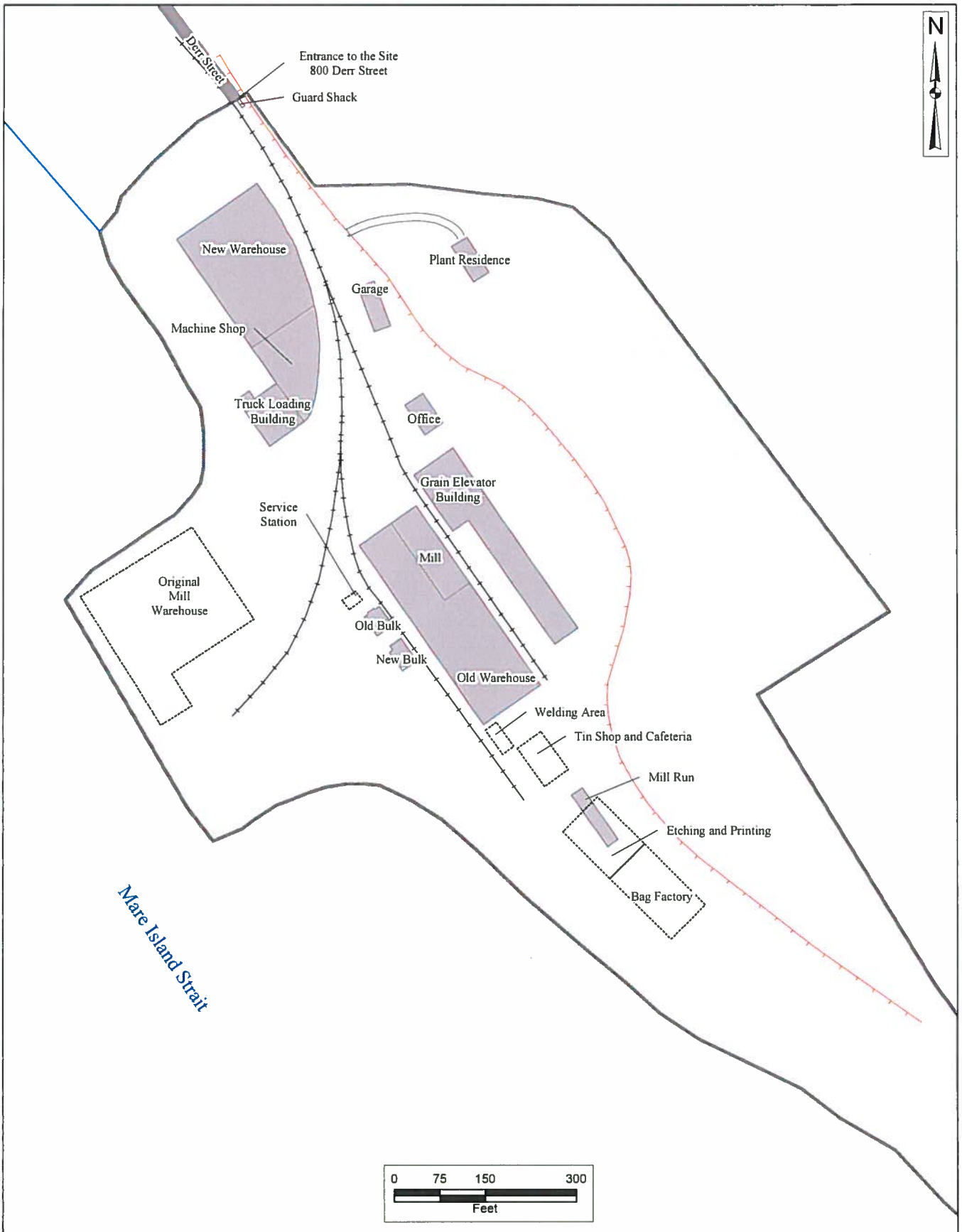

Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Derr Street
- Driveway
- Rail Spur
- Shoreline
- Base of Slope

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Site Map
Site Investigation Report
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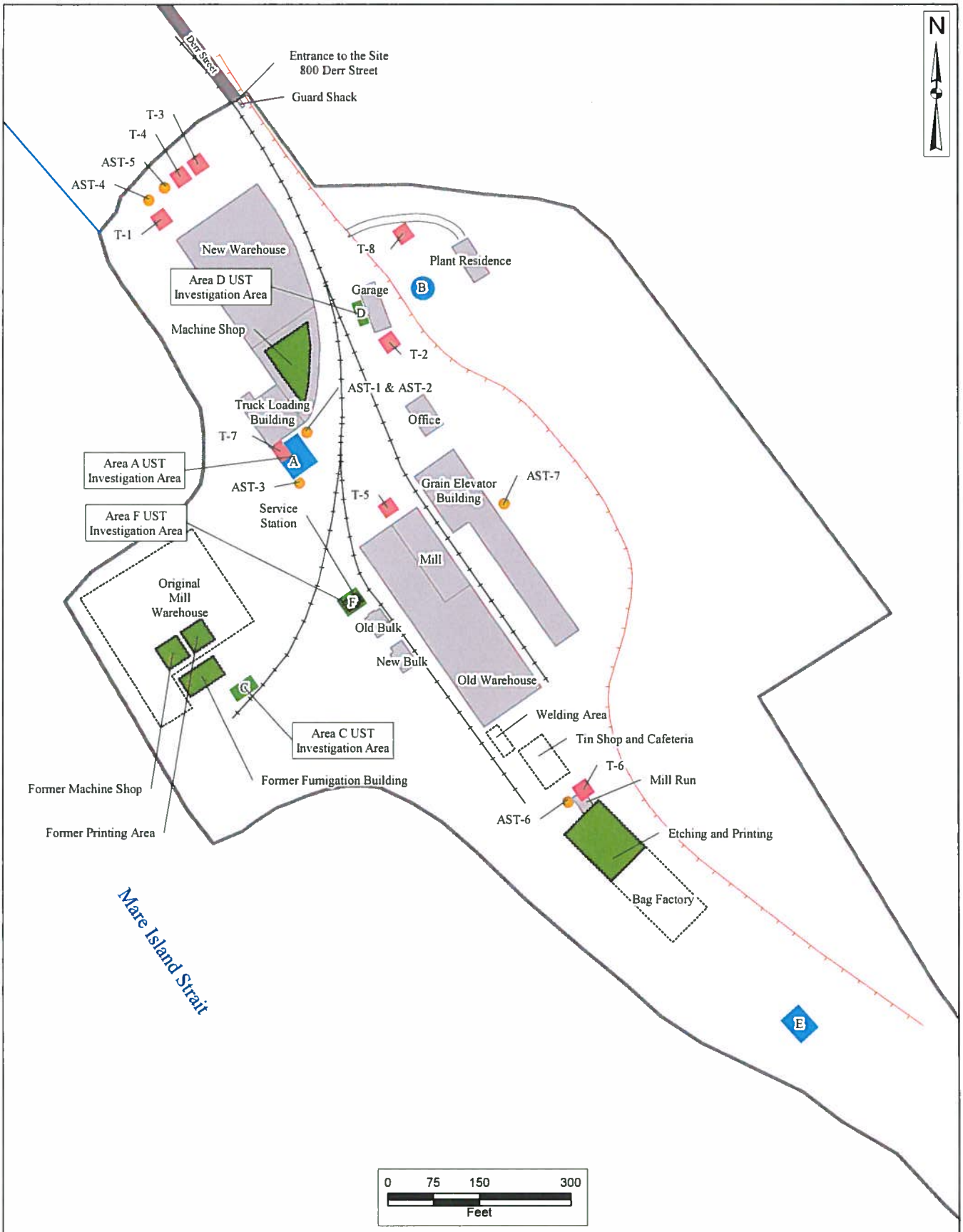
Vallejo, California

February 2006 | **Figure 1-2**



Legend

- Former Closed UST Location
- Potential Area of Concern Misidentified by CGS
- Potential Area of Concern
- Current Buildings
- Former Buildings
- Site Boundary
- Derr Street
- Driveway
- Rail Spur
- Shoreline
- Base of Slope
- Former Above Ground Storage Tank Location

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Location of Potential Areas of Concern
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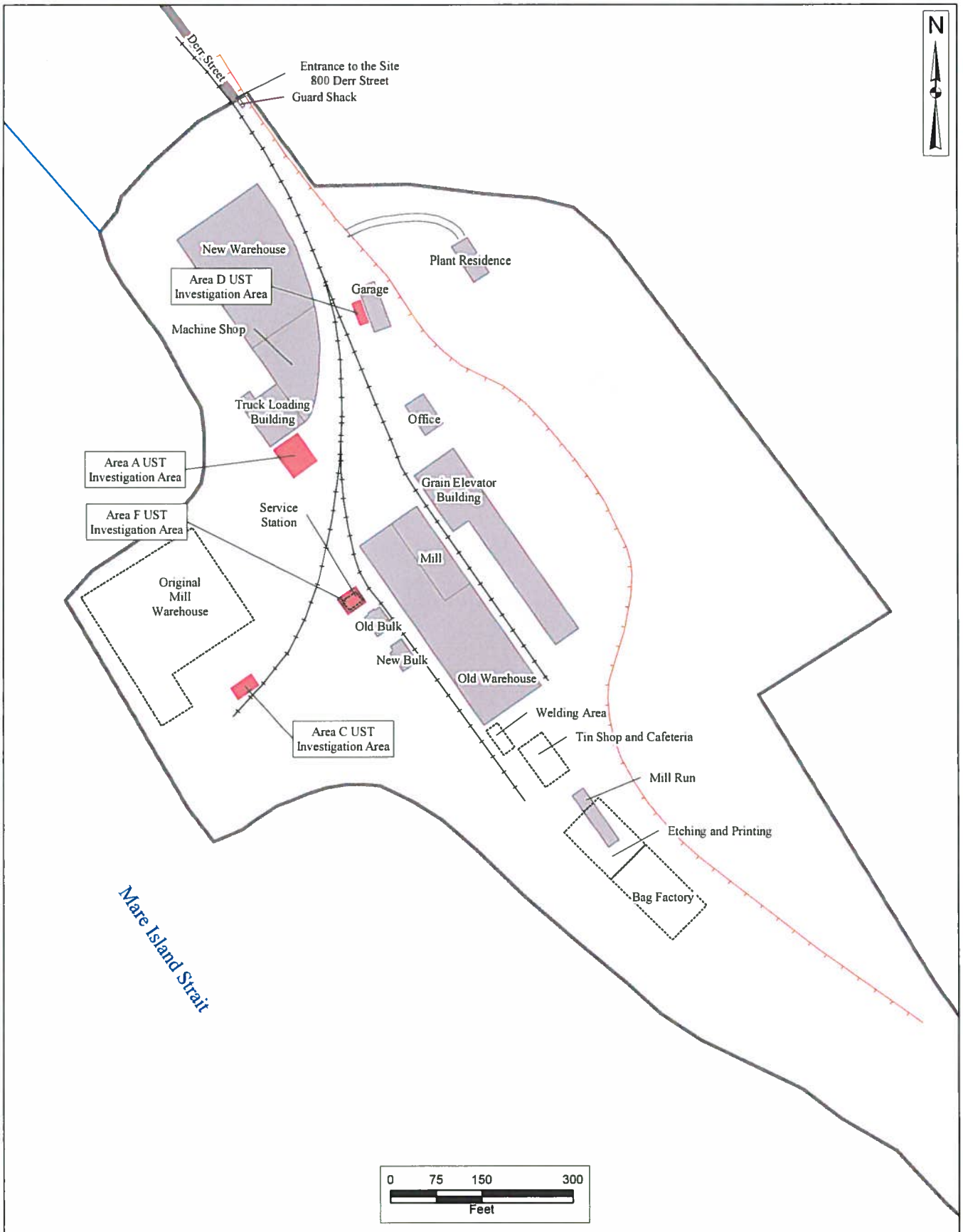
February 2006 | **Figure 2-1**



Legend

- Area of Investigation
- Current Buildings
- Former Buildings
- Site Boundary
- Derr Street
- Driveway
- Rail Spur
- Shoreline
- Base of Slope

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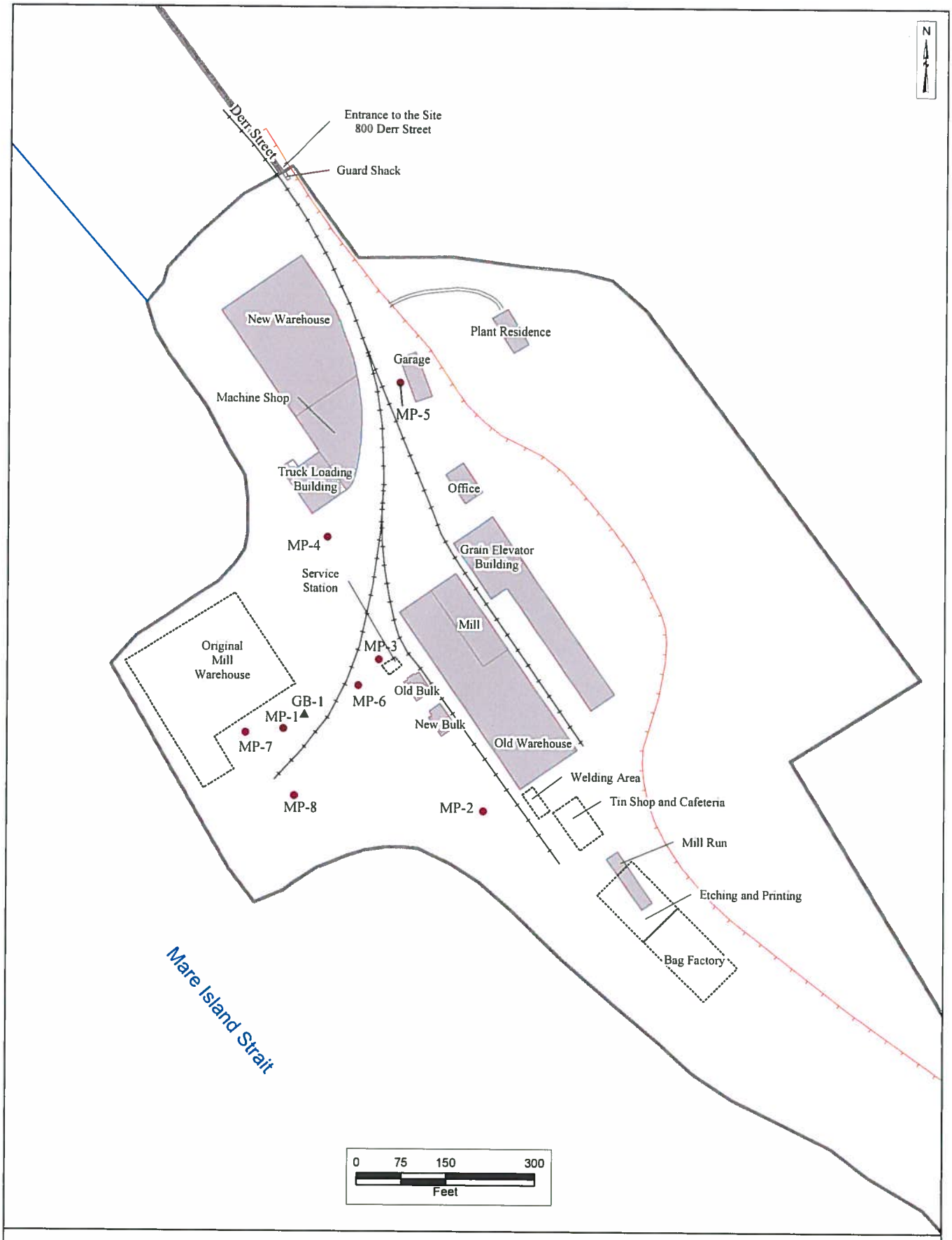
UST Investigation Areas
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 3-1**



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Shoreline
- Base of Slope
- Monitoring Well
- Geotechnical Boring

Key

MP-2 — Monitoring Well ID

GB-1 — Geotechnical Boring ID

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Location of Monitoring Wells and Geotechnical Boring
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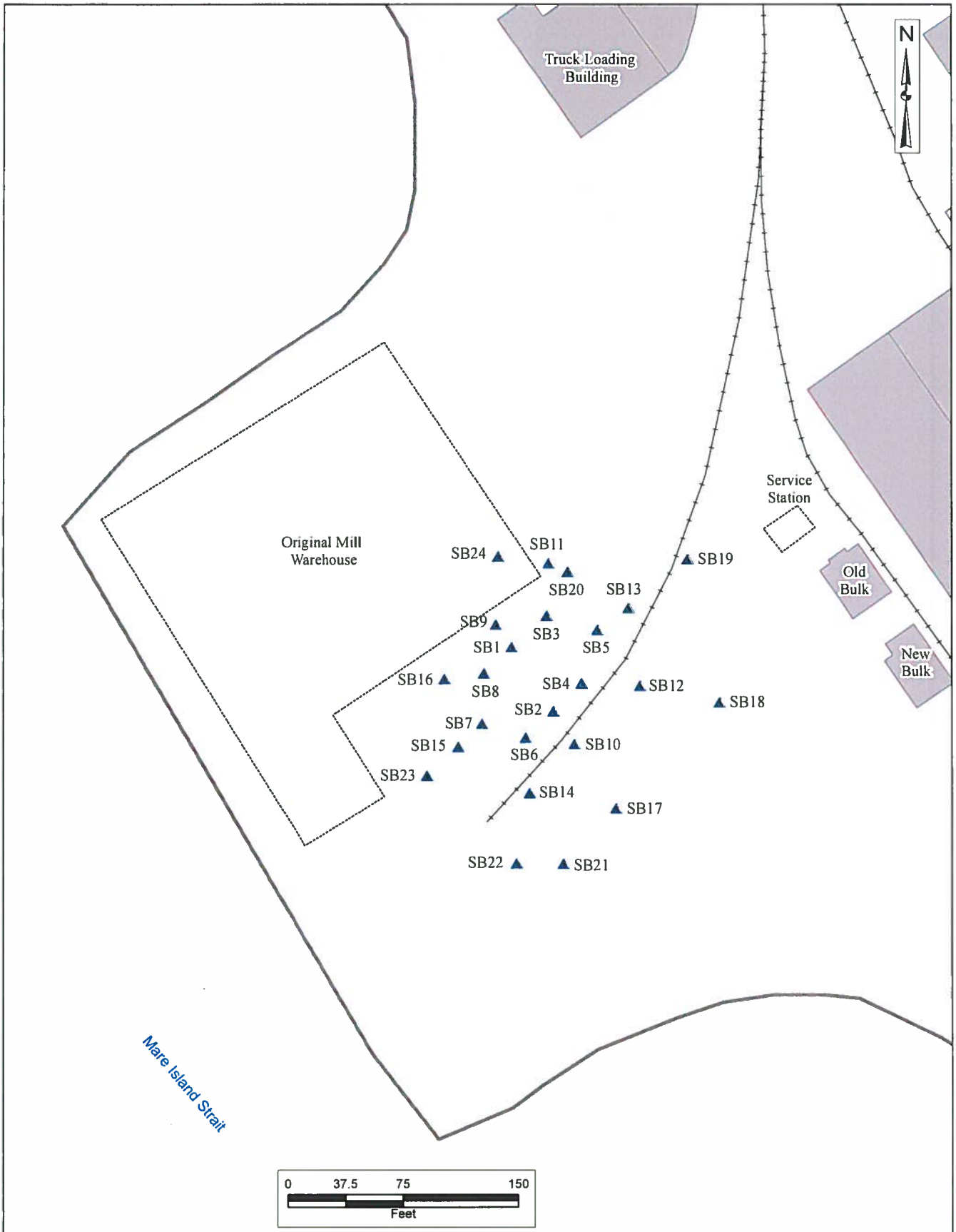
February 2006 | **Figure 4-1**



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Soil Boring

Key

- Soil Boring ID

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Location of Soil Borings
Site Investigation Report
Former Flour Mill Facility
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February 2006 | **Figure 5-1**

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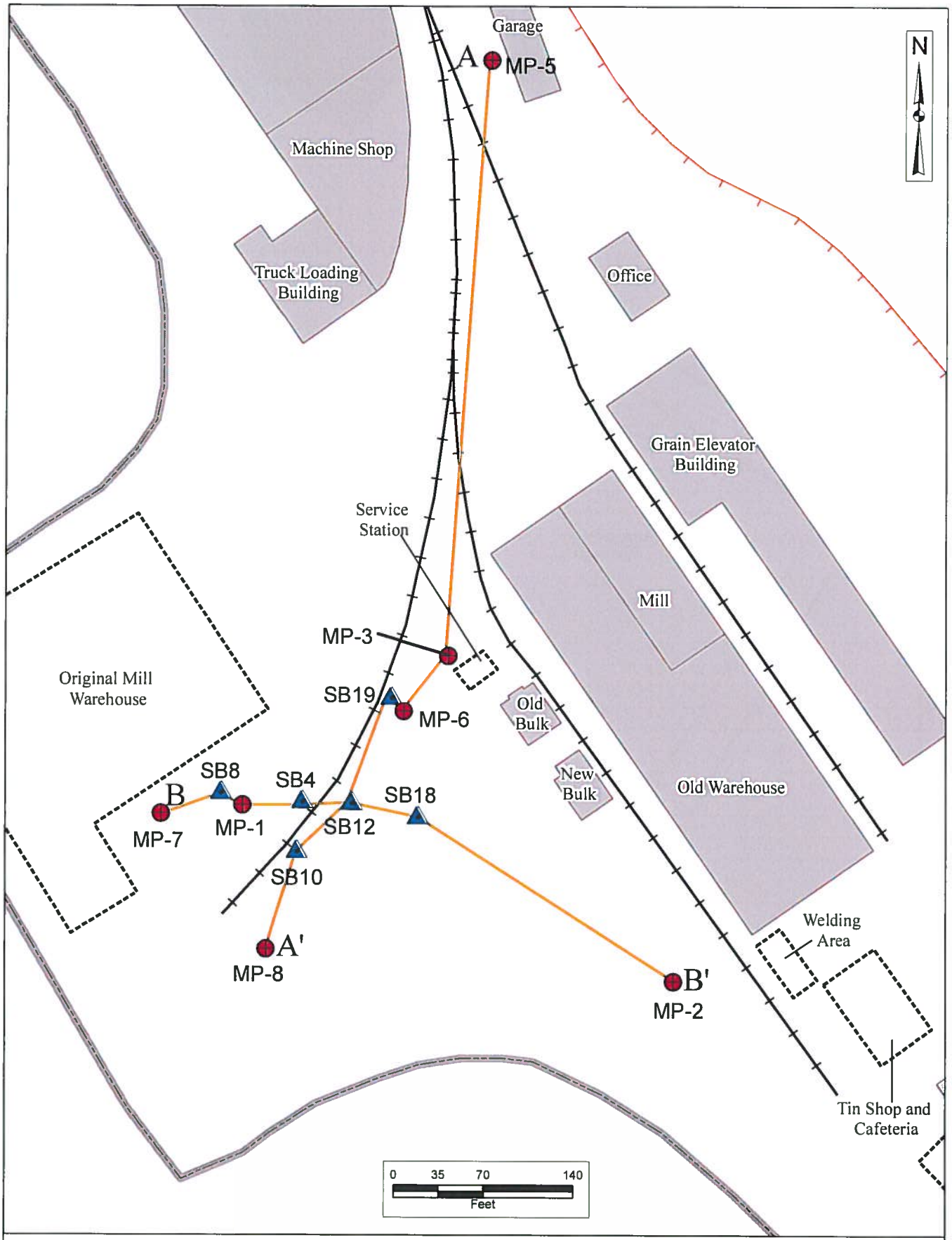

Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Base of Slope
- Geological Cross-Section
- Monitoring Well
- Soil Boring

Key

MP-2 — Monitoring Well ID

SB4 — Soil Boring ID

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Location of Geological Cross-Sections
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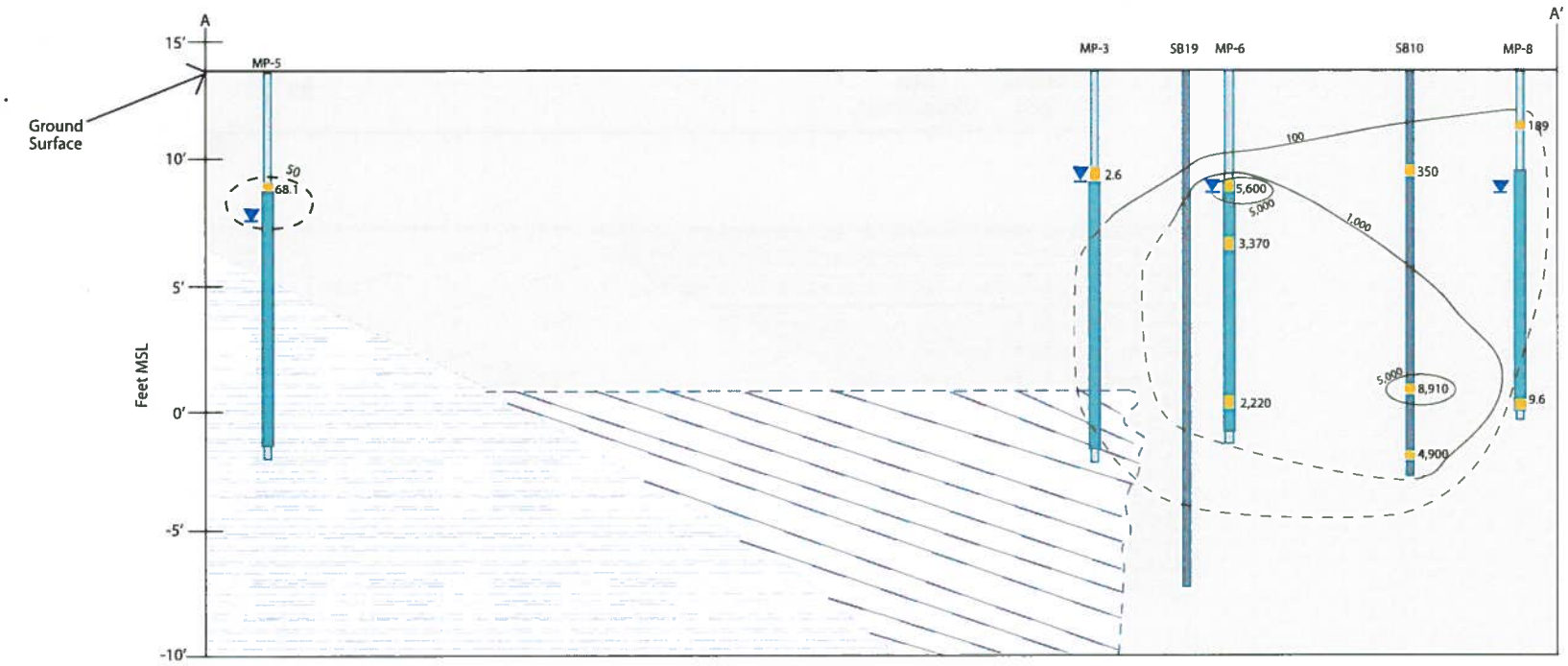
February 2006 | **Figure 7-1**



LEGEND

- Fill
- Weathered Shale
- Bay Mud
- Soil Sample with Total Extractable Petroleum Hydrocarbon (TEPH=TPH-D+TPH-MO) Concentration (mg/kg)
- MSL — Mean Sea Level
- 1,000 — Soil Concentration Contour in mg/kg (dashed where inferred)
- Groundwater Table

Monitoring Well | Soil Boring

Soil Sample

Screen Interval

5'
VERTICAL SCALE EXAGERATION 14x
0'
0' 70'

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Generalized Geologic Cross Section A-A'
Site Investigation Report
Former Flour Mill Facility
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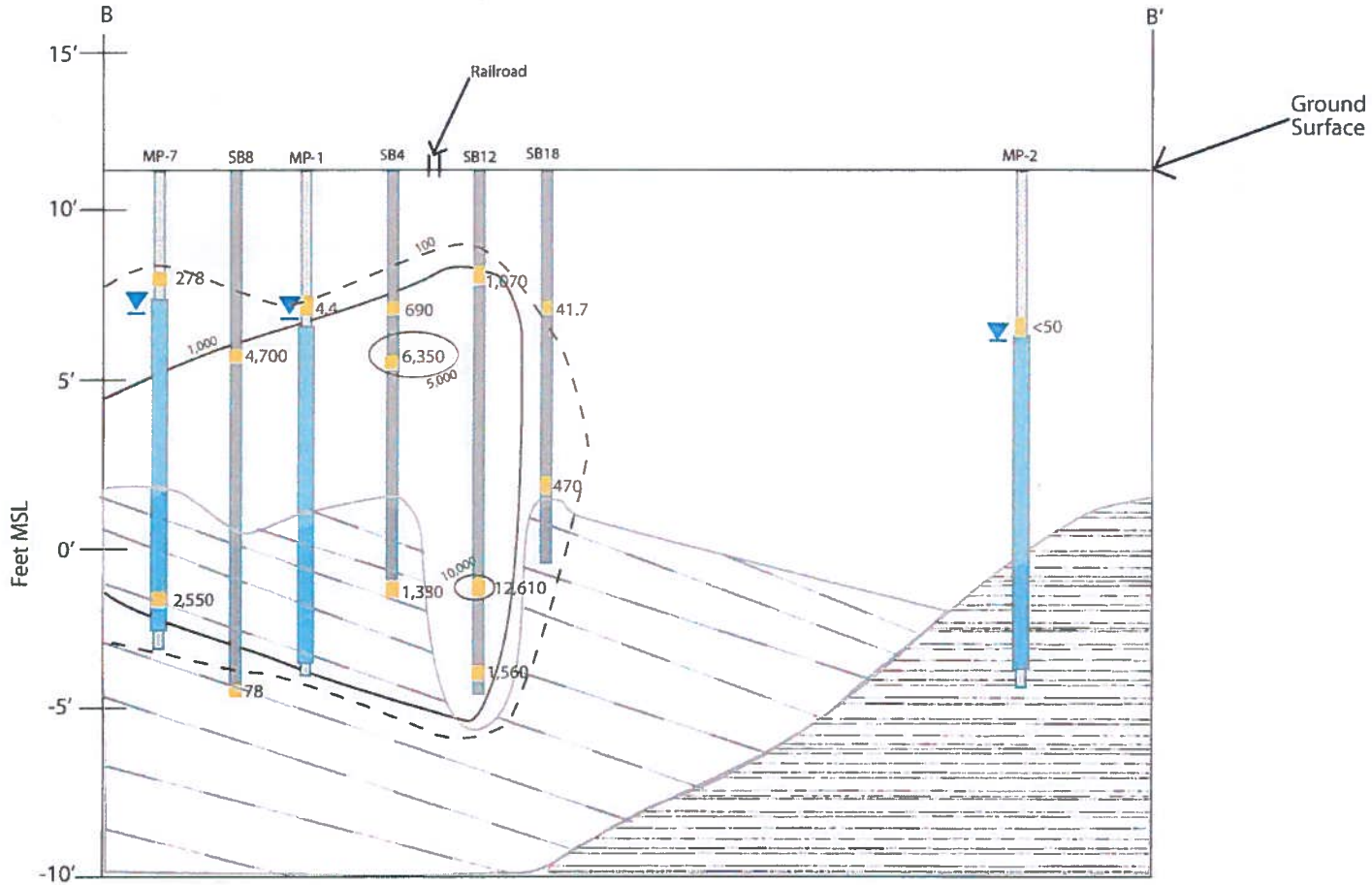
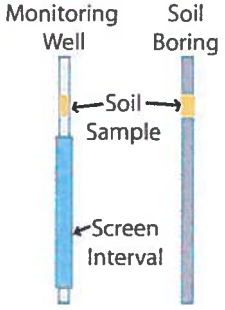
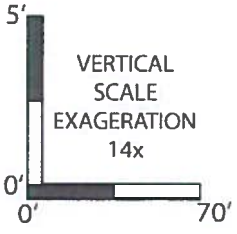
Figure 7-2a | February 2006



LEGEND

- Fill
- Weathered Shale
- Bay Mud
- Soil Sample with Total Extractable Petroleum Hydrocarbon (TEPH=TPH-D+TPH-MO) Concentration (mg/kg)
- MSL — Mean Sea Level
- 1,000 — Soil Concentration Contour in mg/kg (dashed where inferred)
- Groundwater Table





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Generalized Geologic Cross Section B-B'

Site Investigation Report

Former Flour Mill Facility

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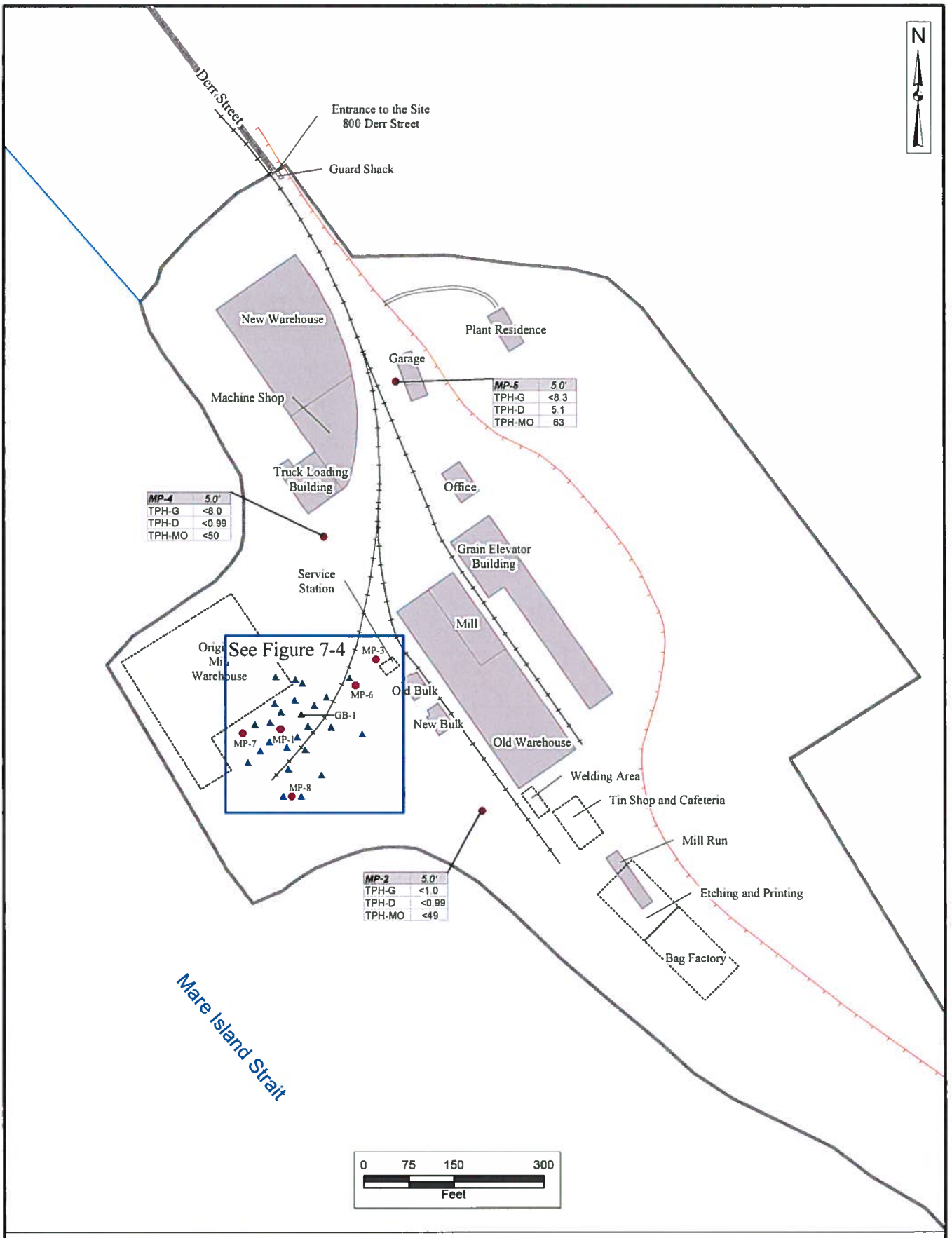
Figure 7-2b | February 2006



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Base of Slope
- Shoreline
- Monitoring Well
- Soil Boring
- Geotechnical Boring

Key

Sample Depth (feet below ground surface)

Monitoring Well/Soil Boring ID — MP-2 5.0'
TPH-Gasoline — TPH-G <1.0
TPH-Diesel Fuel — TPH-D <0.99
TPH-Motor Oil — TPH-MO <49
Results (mg/kg)

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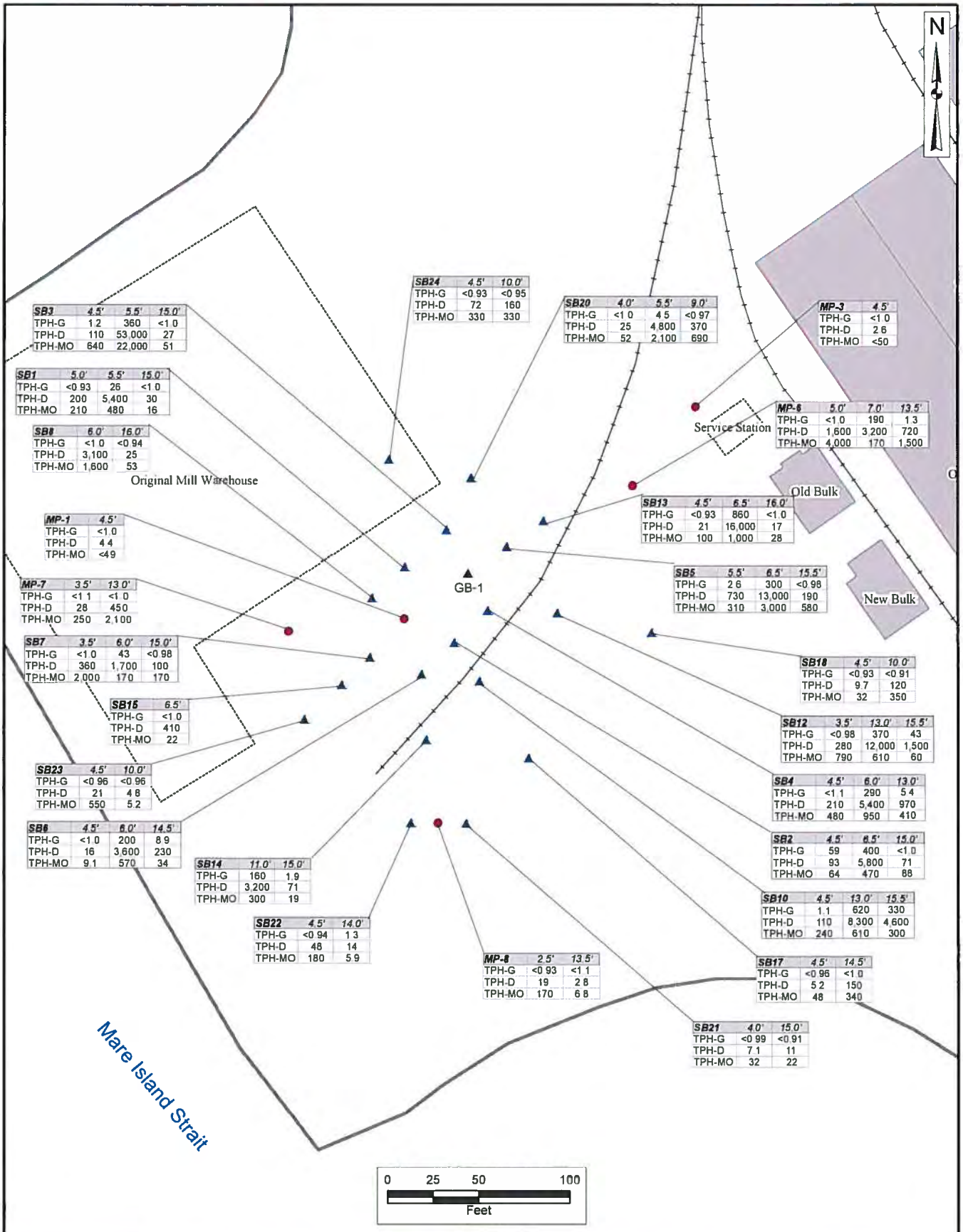
Sitewide Soil Concentration Map
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 7-3**

P:\2626\008\GIS\Project_MXDs\Site_Investigation_Report\Figure 7-3 Sitewide_Soil.mxd



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Monitoring Well
- Soil Boring
- Geotechnical Boring

Key

Sample Depth (feet below ground surface)

Monitoring Well/Soil Boring ID — SB21 | 4.0' | 15.0'
TPH-Gasoline — TPH-G | <0.99 | <0.91
TPH-Diesel Fuel — TPH-D | 7.1 | 11
TPH-Motor Oil — TPH-MO | 32 | 22
Results (mg/kg)

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Area C Soil Concentration Map
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 7-4**

Table 3-1
Summary of Information on the Five Potential USTs
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Area of concern	Size (gal)	Content	Sanborn Map Date	Status
A	32,000	heating oil	1938	Potential tank in Area A is T-7
C	100	fuel oil	1938	See Section 3 and 7
C	100	fuel oil	1938	See Section 3 and 7
D	280	gasoline	1938	See Section 3 and 7
D	280	gasoline	1938	See Section 3 and 7
F	10,000	gasoline	1938	See Section 3 and 7

Notes:
gal - gallons
UST - Underground Storage Tank

Table 2-2
Summary of Information on History and Contents on AST-1 through AST-7
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Number	Size (gallons)	Content	Estimated Date of Use	Location
AST-1	unknown	fuel oil	1900s through 1920s	Southeast of the New Warehouse in the vicinity of T-7
AST-2	unknown	fuel oil	1900s through 1920s	Southeast of the New Warehouse in the vicinity of T-7
AST-3	unknown	fuel oil	1940s - 1970s	Southeast of the New Warehouse in the vicinity of T-7
AST-4	6,000	diesel fuel	Installed in 1988 to replace tanks T-3 and T-4	In the vicinity of T-3 and T-4
AST-5	6,000			
AST-6	550	waste oil	1980s or 1990s	Northeast of the Mill Run in the vicinity of T-6
AST-7	7,000	mineral oil	1990s	Eastern side of the Grain Elevator Building

Table 2-1
Summary of Information on History, Contents, and Closure of Tanks T1- through T-8
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

UST Number	Size (gallons)	Content	Characteristics	Estimated Date of Use	Summary of Environmental Investigations	Status
T-1	1,000	diesel fuel	Unknown characteristics, piping of the suction type, visual and stock inventory used as leak detection. A permit was issued in 1966 for the installation of a 1,000 gallon diesel tank	1966 - 1987	**April 1987:** One soil sample was collected from beneath the tank and analyzed for TPH-D. Analytical results from the soil sample were non-detect for TPH-D. **September 1994 - September 1996:** Four borings were advanced and four soil samples and one grab groundwater sample were collected. A slight sheen was visible in the boreholes. TPH-D was detected in the soil samples at concentrations ranging from 4 to 16 mg/kg. TPH-D was detected in the groundwater sample collected from one soil boring at a concentration of 420 µg/L. No other compounds were detected above their reporting limit. Following the first quarter 1996 monitoring event, closure was requested. According to General Mills consultant, significant concentrations of TPH were not present in the groundwater at the Site. Based on the analytical results, the General Mills consultant concluded that since BTEX have not been recorded in any monitoring wells, the groundwater beneath the Site did not appear to have been adversely impacted by the former UST releases. Given the apparent natural attenuation of the petroleum hydrocarbons and the non-potable nature of the groundwater beneath the Site, no adverse impact has been identified. No Further Action was granted in September 1996.	Removed in April 1987. State approved NFA in September 1996
T-2	1,000	diesel fuel	Unknown characteristics, piping of the suction type, visual and stock inventory used as leak detection.	Unknown - 1987	**April 1987:** One soil sample was collected from beneath the tank and analyzed for TPH-D. Analytical results from the soil sample were non-detect for TPH-D. No further investigation was required.	UST Removed in April 1987, NFA required by County in May 1987. State approved NFA in September 1996.
T-3	5,000	diesel fuel	Manufactured by Perkins in 1980, installed in 1980 with 1/4" thick steel, non-vaulted, single walled, steel, piping of the suction type, stock inventory used as leak detection	1980 - 1988	**January 1988:** Three sidewall samples and one groundwater sample were collected from the exacavation following removal of the tanks. The three sidewall soil samples did not contain detectable concentrations of TPH-D. Product was observed on groundwater at 6 feet below grade. The groundwater sample contained 560,000 µg/L of TPH-D. Soil stockpile samples contained concentrations of TPH-D up to 770 mg/kg. Approximately 50 cubic yards of impacted soils were removed during tank removal. Four groundwater monitoring wells were installed (4" PVC, screened from 6 to 16 feet bgs). **September 1994 - September 1996:** Well MW-3, installed in 1988, could not be located. The three other wells were sampled and groundwater results were non-detected in October 1994, February 1995, and May 1995, except for TPH-D detected at 350 µg/L in MW-4 in May 1995. Following the first quarter 1996 monitoring event, closure was requested. According to General Mills consultant, significant concentrations of TPH were not present in the groundwater at the Site. Based on the analytical results, the General Mills consultant concluded that since BTEX have not been recorded in any monitoring wells, the groundwater beneath the Site did not appear to have been adversely impacted by the former UST releases. Given the apparent natural attenuation of the petroleum hydrocarbons and the non-potable nature of the groundwater beneath the Site, no adverse impact has been identified. No Further Action was granted in September 1996.	Removed in January 1988. State approved NFA in September 1996
T-4	5,000	diesel fuel				

Table 2-1
Summary of Information on History, Contents, and Closure of Tanks T1- through T-8
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

UST Number	Size (gallons)	Content	Characteristics	Estimated Date of Use	Summary of Environmental Investigations	Status
T-5	250	waste oil	Single wall, steel	Unknown - 1988	**January 1988:** One soil sample was collected from beneath the tank after removal. Analytical results indicated the presence of Oil & Grease at a concentration of 7,500 mg/kg and TPH-D at 200 mg/kg. VOCs were also detected in the soil sample at the following concentrations: carbon tetrachloride (0.098 mg/kg); 1,2-dichloroethane (0.086 mg/kg); trans-1,2-dichloroethene (33 mg/kg); ethylbenzene (0.2 mg/kg); methylene chloride (2 mg/kg); 1,1,2,2-tetrachloroethane (3.6 mg/kg); tetrachloroethene (64 mg/kg); toluene (0.37 mg/kg) 1,1,1-trichloroethane (0.78 mg/kg); and trichloroethene (42 mg/kg). No groundwater was encountered during excavation so no groundwater sample was collected. **September 1994 - Semptember 1996:** Advancement of 4 soil borings and installation of one monitoring well. Soil results for one boring (T5-1) indicated a Total residual petroleum hydrocarbon concentration up to 940 mg/kg in soil samples in the vadose zone and up to 80 mg/kg in the saturated zone. Metals, such as chromium, lead, zinc, and nickel were detected at acceptable levels above their reported limit, except for a lead concentration of 170 mg/kg in T5-1 (at 6.5 feet bgs in the saturated zone). PCBs, VOCs, PCP, PNAs, and creosote were detected below their respective reporting limit in both samples. Results in the other three borings revealed concentrations of TPH-MO ranging from non-detect to 8.8 mk/kg and TPH-D at 1.3 mg/kg.Total lead was detected a concentration up to 39 mg/kg. No TPH-G, TRPH, BTEX, or VOCs were detected above their reporting limits in the soil samples. No analytes were detected above their reporting limit in well MW-6 in March 1995. TPH-D was detected in groundwater at a concentration of 1,400 µg/L, 880 µg/L, and 630 µg/L in May 1995, September 1995, and January 1996, respectively. No other analytes were detected during these monitoring events. Following the first quarter 1996 monitoring event, closure was requested. According to General Mills consultant, significant concentrations of TPH were not present in the groundwater at the Site. Based on the analytical results, the General Mills consultant concluded that since BTEX have not been recorded in any monitoring wells, the groundwater beneath the Site did not appear to have been adversely impacted by the former UST releases. Given the apparent natural attenuation of the petroleum hydrocarbons and the non-potable nature of the groundwater beneath the Site, no adverse impact has been identified. No Further Action was granted on September 1996.	Removed in January 1988. State approved NFA in September 1996
T-6	1,000	diesel fuel or gasoline	Single wall, steel	1930s	**November 1988:** Two soil samples and one groundwater sample were collected from beneath the tank after removal. The gorundwater sample contained a concentration of 43,000 µg/L of TPH-D. Soil analytical results were not found in the Solano County files. **September 1994 - September 1996:** No analytes were detected above thier reporting limit in the two soil borings advanced in the vicinity of the tank. Following the first quarter 1996 monitoring event, closure was requested. According to the General Mills consultant, significant concentrations of TPH were not present in the groundwater at the Site. Based on the analytical results, the General Mills consultant concluded that since BTEX have not been recorded in any monitoring wells, the groundwater beneath the Site did not appear to have been adversely impacted by the former UST releases. Given the apparent natural attenuation of the petroleum hydrocarbons and the non-potable nature of the groundwater beneath the Site, no adverse impact has been identified. No Further Action was granted in September 1996.	Removed in November 1988. State approved NFA in September 1996

Table 2-1
Summary of Information on History, Contents, and Closure of Tanks T1- through T-8
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

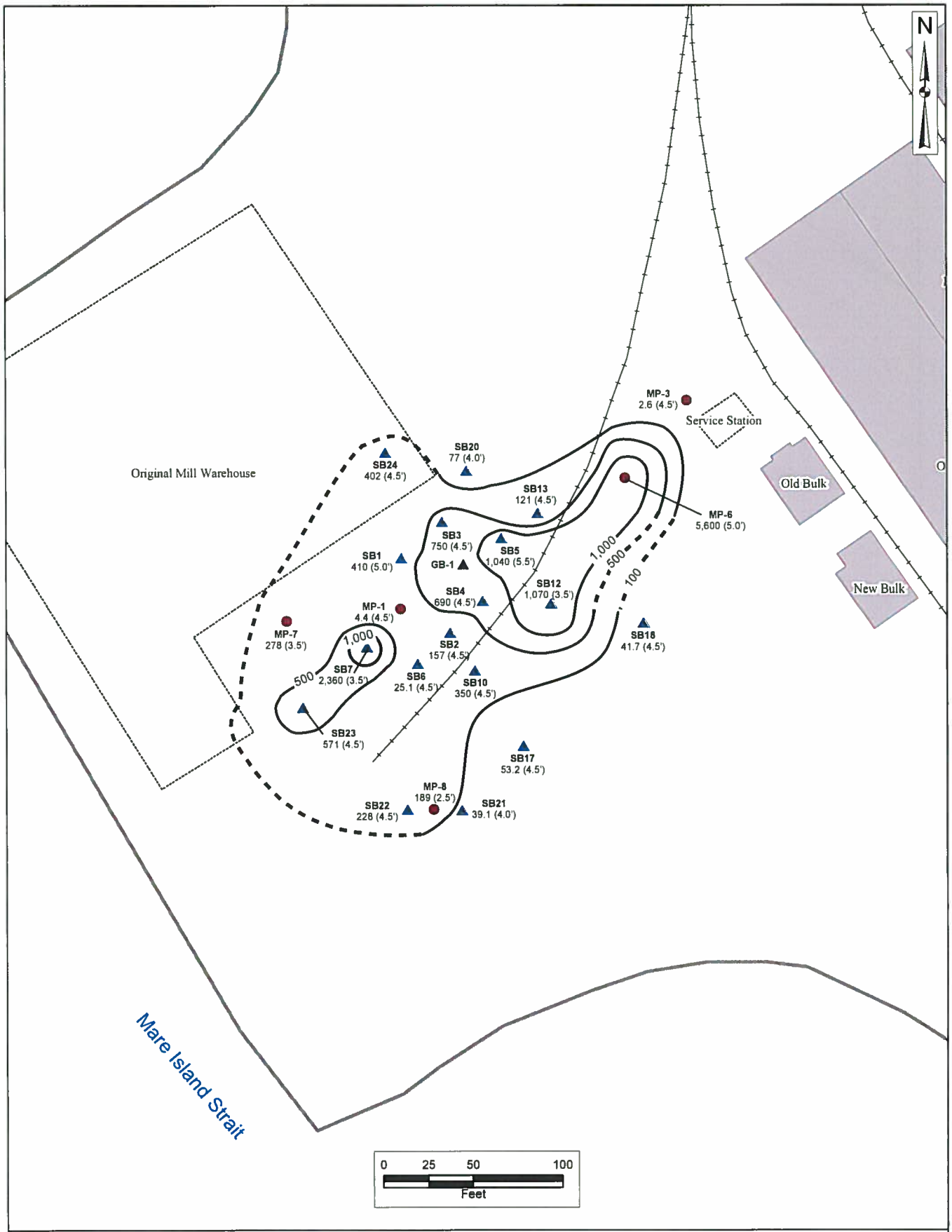
UST Number	Size (gallons)	Content	Characteristics	Estimated Date of Use	Summary of Environmental Investigations	Status
T-7	32,000	heating oil	Concrete	1930s	**April 1993:** Four soil borings and one Hydropunch groundwater sample were drilled in the vicinity of the tank in April 1993. Soil sample analytical results contained a maximum concentration of TPH-G of 13 mg/kg. Product was reportedly encountered in one soil boring located on the south side of the tank. The groundwater sample collected contained 2,200 µg/L of TPH-G, 100,000 µg/L of TPH-D, and 120,000 µg/L of TPH-MO. No VOCs were detected in the groundwater sample. Detectable concentrations of chromium, lead, nickel, and zinc were detected in the groundwater sample. The lead concentration of 120 µg/L detected in the grab groundwater sample was the only metal concentration to exceed the MCL. **May 1993:** Ten Hydropunch borings were drilled in the vicinity of T-7 and nine soil and ten groundwater samples were collected. No TPH were detected in the soil samples but the groundwater samples contained concentrations of TPH-D up to 130,000 µg/L and TPH-MO up to 150,000 µg/L. **May 1994:** Installation of MW-5 immediately west of T-7 (2" PVC, screen from 3 to 13 feet bgs) **September 1994 - September 1996:** TPH-MO was detected in MW-5 at a concentration of 220 µg/L in October 1994. No analytes were detected in MW-5 in February 1995, May 1995, and September 1995, except for TPH-MO at a concentration of 300 µg/L in September 1995 but TPH-MO was also detected in the laboratory method blank. Following the first quarter 1996 monitoring event, closure was requested. According to General Mills consultant, significant concentrations of TPH were not present in the groundwater at the Site. Based on the analytical results, the General Mills consultant concluded that since BTEX have not been recorded in any monitoring wells, the groundwater beneath the Site did not appear to have been adversely impacted by the former UST releases. Given the apparent natural attenuation of the petroleum hydrocarbons and the non-potable nature of the groundwater beneath the Site, no adverse impact has been identified. No Further Action was granted on September 1996.	Closed in Place in April 1993. State approved NFA in September 1996
T-8	250	heating oil	Single wall, steel	Unknown - 2002	**April 2002:** T-8 was removed and four confirmation samples were collected. TPH-G was detected at concentrations up to 190 mg/kg and TPH-D was detected at concentrations up to 1,400 mg/kg. **September 2003:** Excavation was extended to 10 feet bgs and two confirmation samples were collected. TPH-G and TPH-D were detected in the confirmation samples up to a concentration of 300 mg/kg and 3,900 mg/kg, respectively. Four soil borings were advanced to a maximum depth of 19 feet bgs. Five soil samples were collected from each boring for analysis. Results showed minor TPH-D concentrations at shallow depths, a detection at a concentration of 260 mg/kg at 10 feet bgs in one soil boring, and no detections below 15 feet bgs. The excavation was then extended to 15 feet bgs. A groundwater sample was collected in June 2004 from a temporary monitoring well and no analytes were detected. No Further Action was granted in August 2004.	Removed in April 2002. State approved NFA in September 1996

Notes:
UST - Underground Storage Tank
bgs - below ground surface
µg/L - micrograms per liter
mg/kg - milligrams per kilogram
BTEX - Benzene, Toluene, Ethylbenzene, Xylenes
VOCs - Volatile Organic Compounds
TPH-G - Total Petroleum Hydrocarbons as Gasoline
TPH-D - Total Petroleum Hydrocarbons as Diesel Fuel
TPH-MO - Total Petroleum Hydrocarbons as Motor Oil

Sources:

1. Solano County Department of Resource Management. File 10316 Summary.
2. McLaren/Hart Environmental Engineering, 1995. Soil and Groundwater Investigation, Supplemental Underground Storage Tank Closure Plan Including Quarterly Groundwater Monitoring at the General Mills Facility. May 11.
3. McLaren/Hart Environmental Engineering, 1996. First Quarter 1996 Quarterly Groundwater Monitoring at the General Mills Facility. March 6.
4. Kleinfelder, 2003. Soil Investigation and Sampling Report. General Mills Vallejo Mill. September 2003
5. Kleinfelder, 2004. Final Closure Report. General Mills Vallejo Mill. July 2004

TABLES



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Monitoring Well
- Soil Boring
- Geotechnical Boring

Key

SB 22 — Soil Boring/Monitoring Well ID
228 (4.5')
Maximum TEPH Result (mg/kg)
Sample Depth (feet below ground surface)

100 — Concentration Contour in mg/kg (dashed where inferred)

TEPH = Total Extractable Petroleum Hydrocarbons (TPH-D and TPH-MO)

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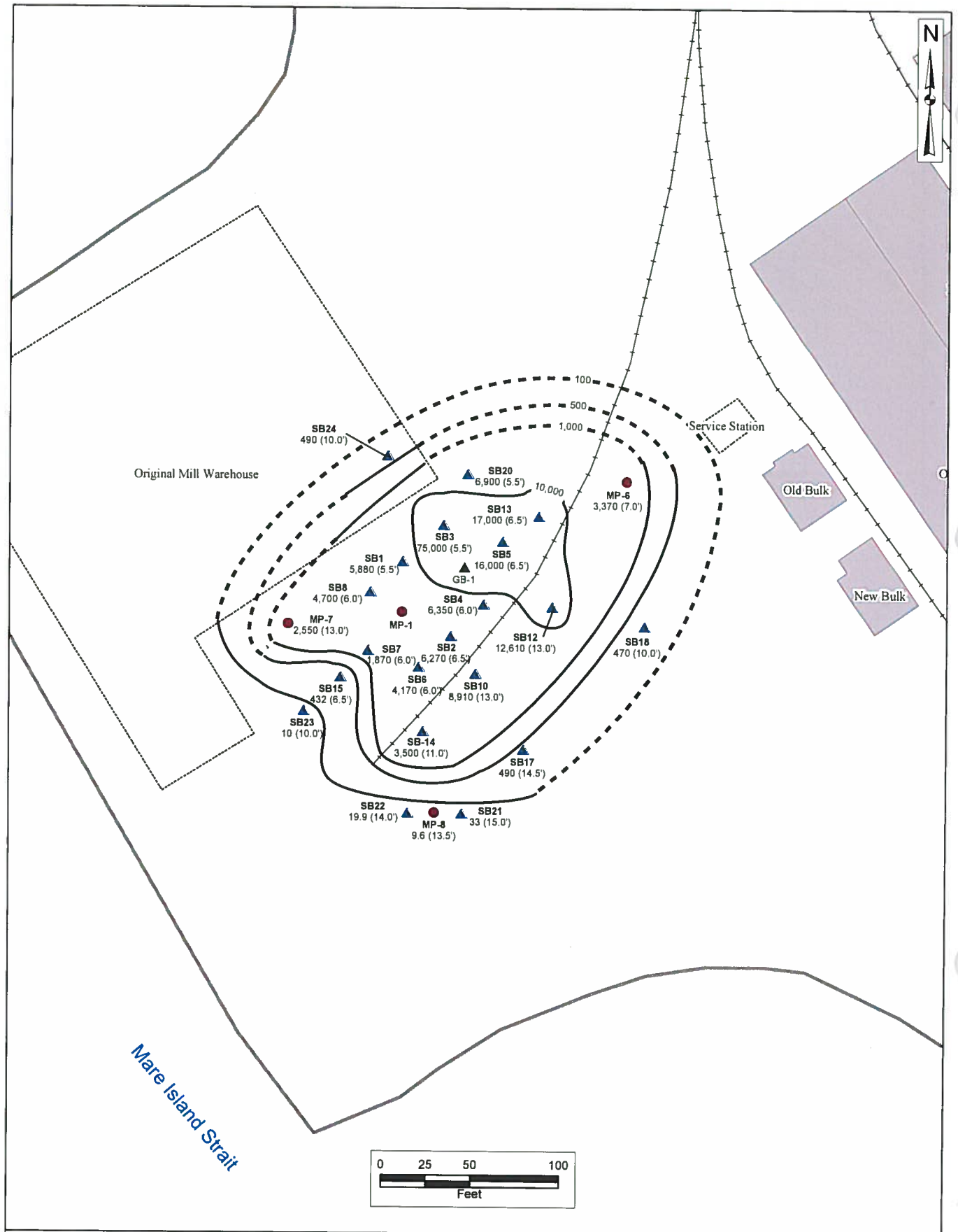
TEPH in Soil Isoconcentration Map Above the Groundwater Table
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 7-5a**



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Monitoring Well
- Soil Boring
- Geotechnical Boring

Key

SB 22 — Soil Boring/Monitoring Well ID
20 (14.0') — Maximum TEPH Result (mg/kg); Sample Depth (feet below ground surface)

100 — Concentration Contour in mg/kg (dashed where inferred)

TEPH = Total Extractable Petroleum Hydrocarbons (TPH-D and TPH-MO)

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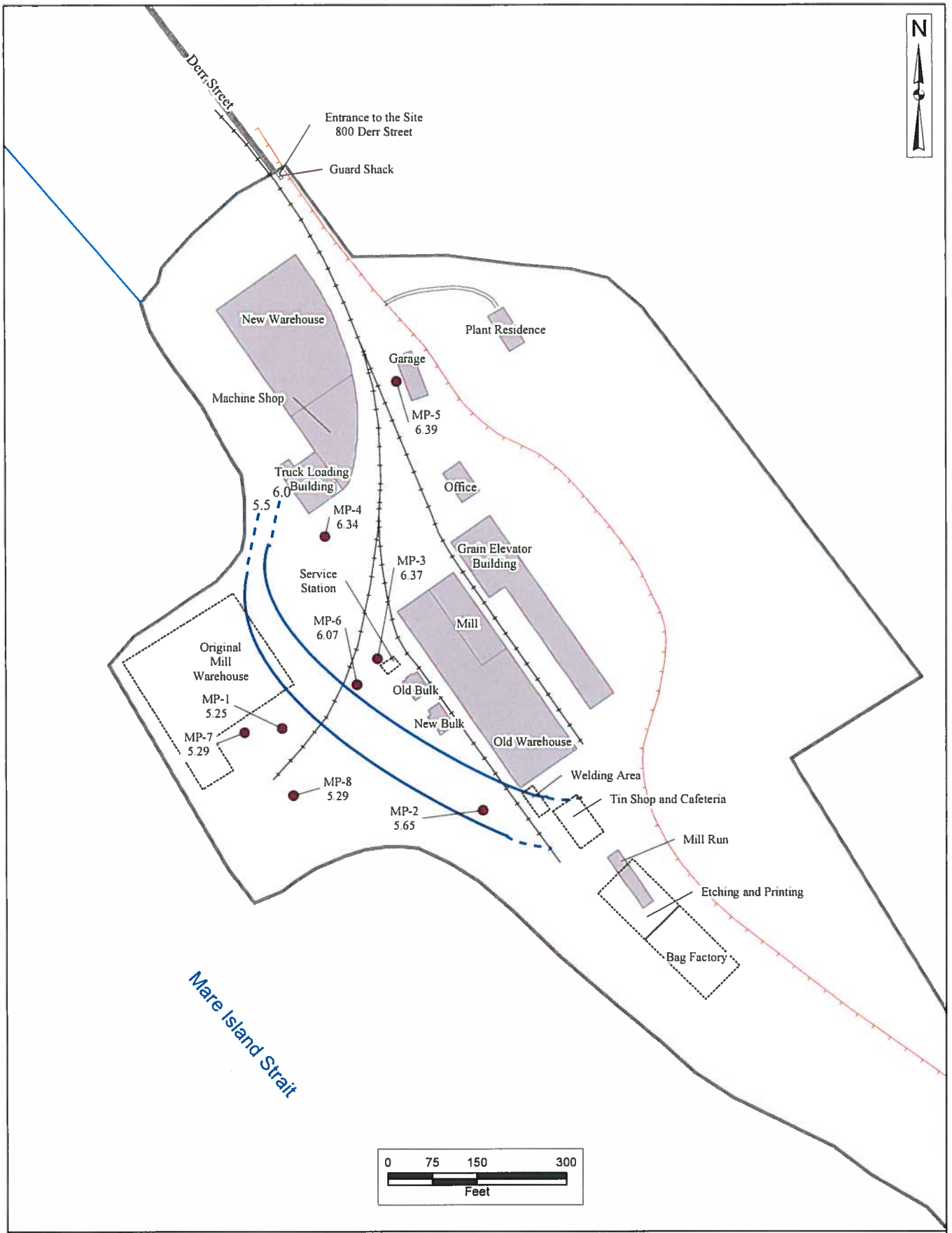
TEPH in Soil Isoconcentration Map Below the Groundwater Table
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 7-5b**



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Groundwater Surface Elevation Contour (ft msl)
- Rail Spur
- Base of Slope
- Monitoring Well

Key

MP-8 / 5.29 — Monitoring Well ID; Groundwater Elevation (ft msl) Measured on February 9, 2006

ft msl = feet above mean sea level

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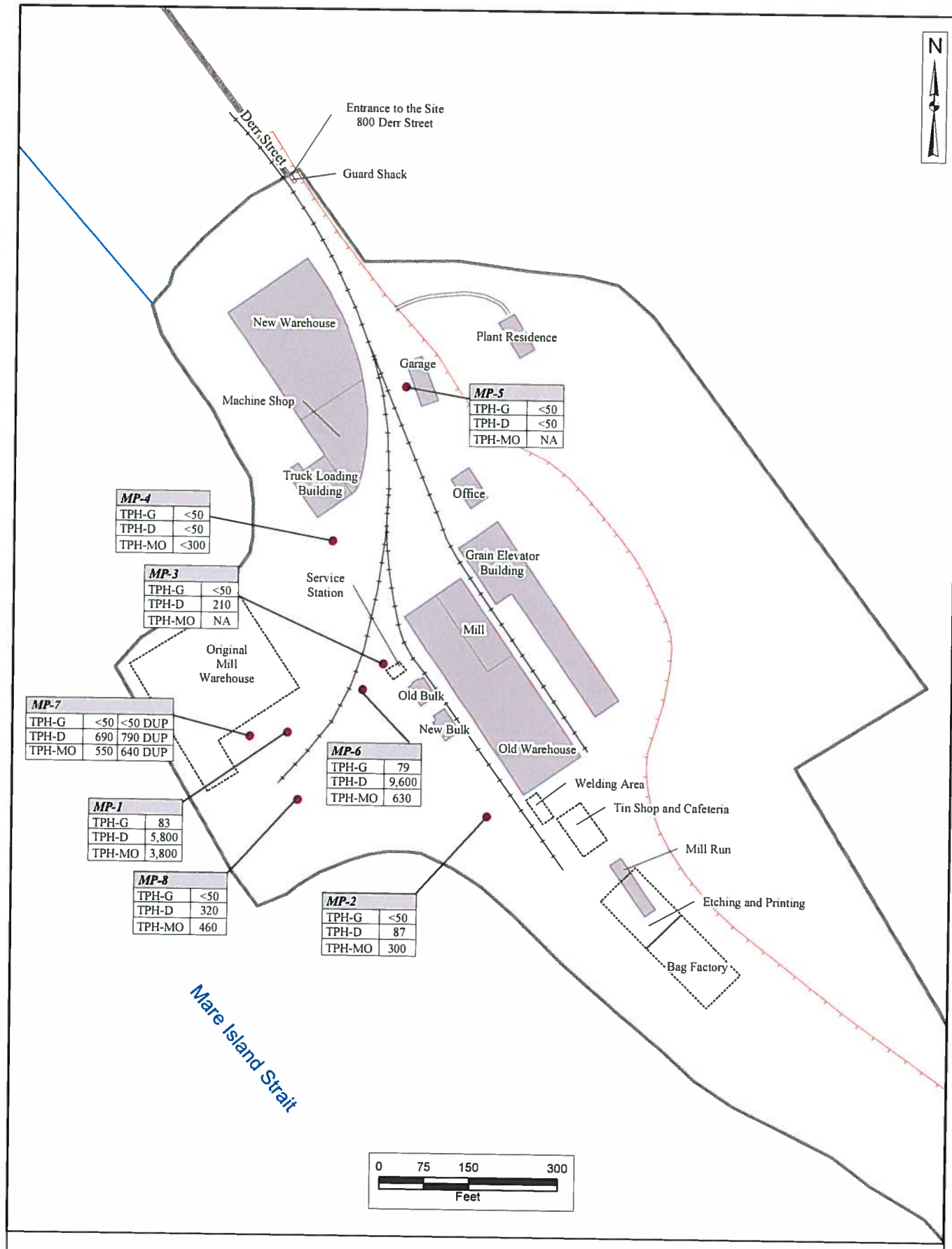
Groundwater Surface Elevation Contour Map
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 7-6**



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Shoreline
- Base of Slope
- Monitoring Well

Key

Monitoring Well ID

MP-8	
TPH-G	<50
TPH-D	320
TPH-MO	460

TPH-Gasoline
TPH-Diesel Fuel
TPH-Motor Oil

Results (µg/L) (Collected on February 9-10, 2006)

NA Not Analyzed
DUP Duplicate

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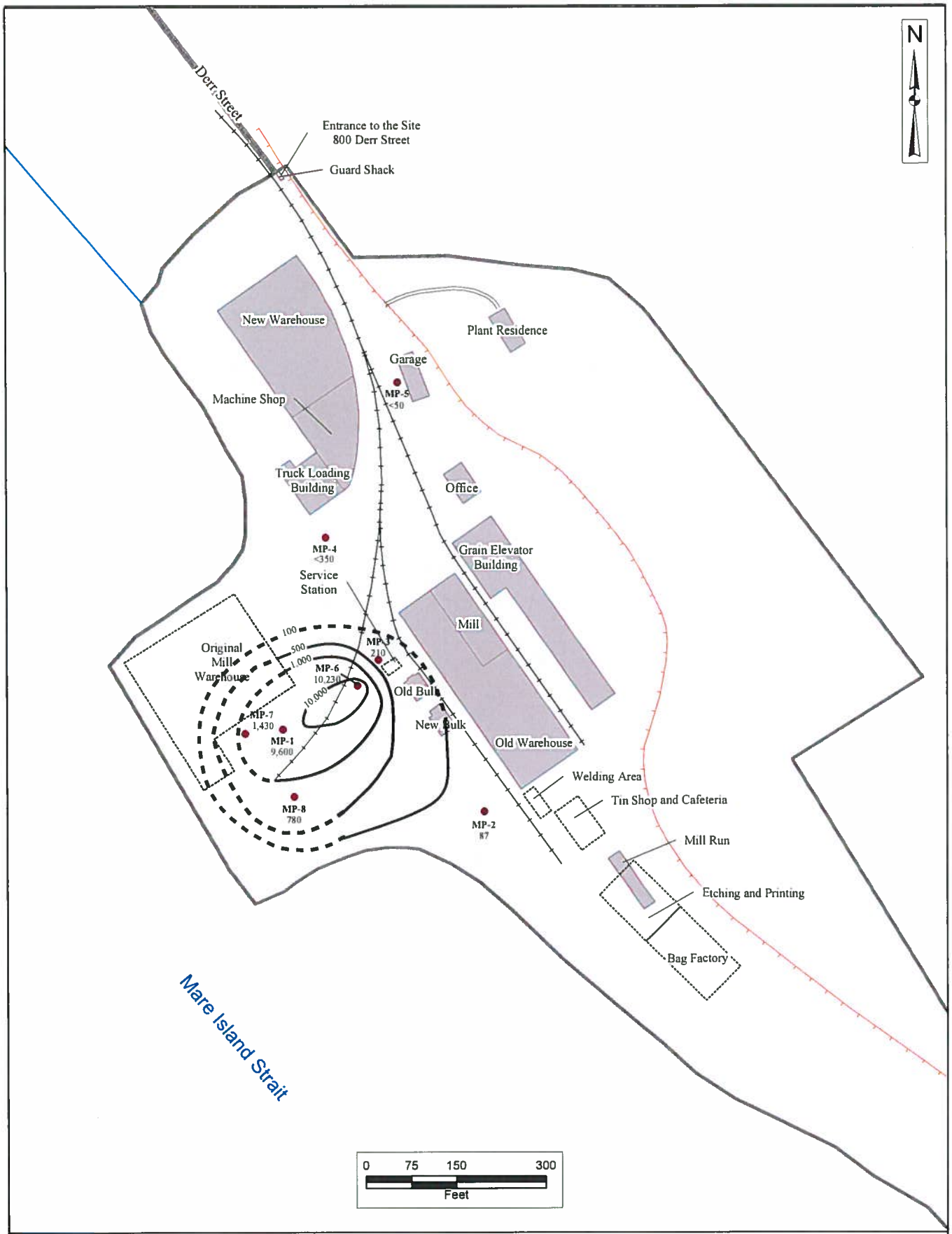
Groundwater Concentration Map
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 7-7**



Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Shoreline
- Base of Slope
- Monitoring Well

Key

MP-2 — Monitoring Well ID
87 — TEPH Result (µg/L)
(Collected on February 9-10, 2006)

100 — Groundwater Concentration Contour in µg/L
(dashed where inferred)

TEPH = Total Extractable Petroleum Hydrocarbons
(TPH-D and TPH-MO)

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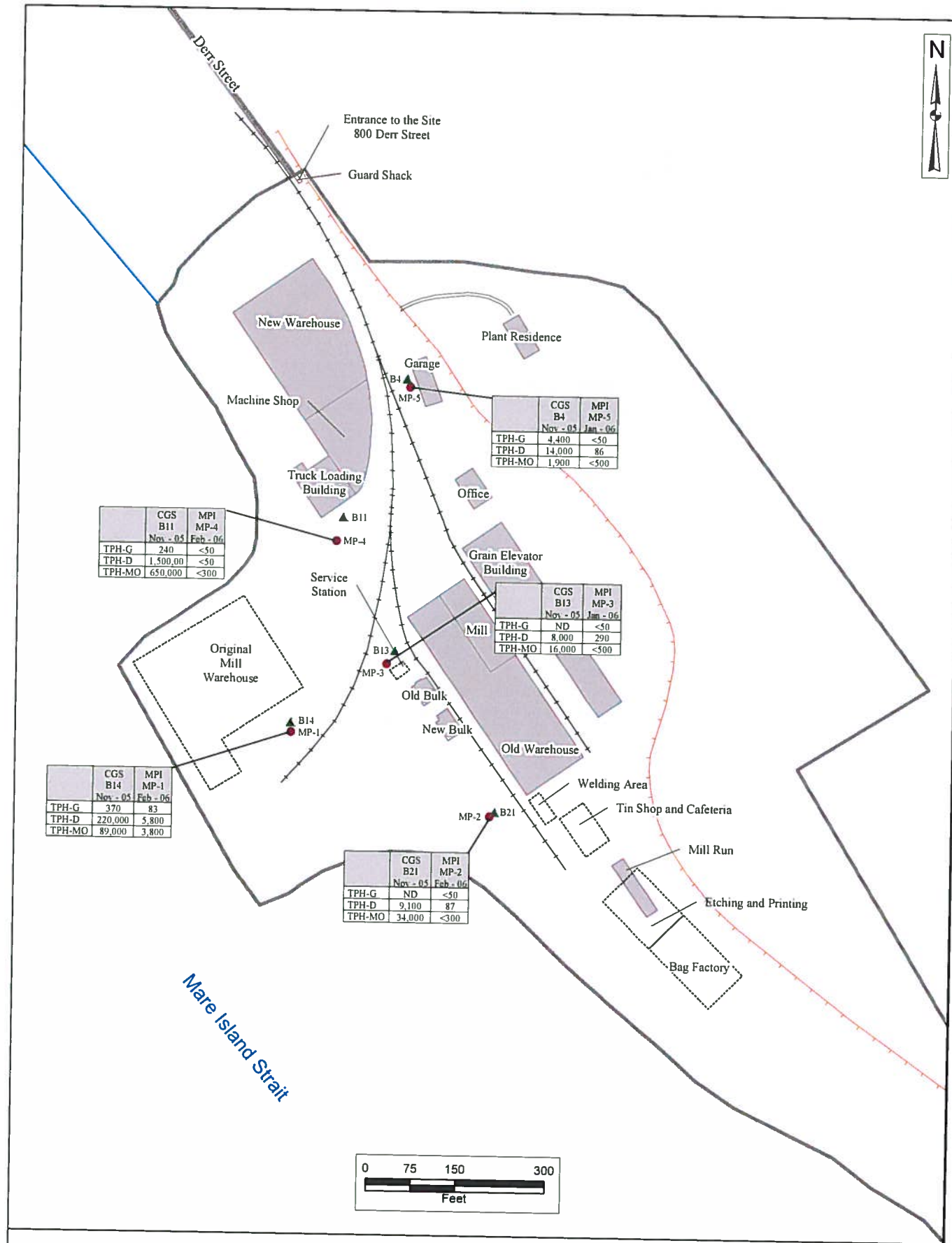
TEPH in Groundwater Isoconcentration Map
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 7-8**



	CGS B4 Nov - 05	MPI MP-5 Jan - 06
TPH-G	4,400	<50
TPH-D	14,000	86
TPH-MO	1,900	<500

	CGS B11 Nov - 05	MPI MP-4 Feb - 06
TPH-G	240	<50
TPH-D	1,500,00	<50
TPH-MO	650,000	<300

	CGS B13 Nov - 05	MPI MP-3 Jan - 06
TPH-G	ND	<50
TPH-D	8,000	290
TPH-MO	16,000	<500

	CGS B14 Nov - 05	MPI MP-1 Feb - 06
TPH-G	370	83
TPH-D	220,000	5,800
TPH-MO	89,000	3,800

	CGS B21 Nov - 05	MPI MP-2 Feb - 06
TPH-G	ND	<50
TPH-D	9,100	87
TPH-MO	34,000	<300

Legend

- Current Buildings
- Former Buildings
- Site Boundary
- Rail Spur
- Shoreline
- Base of Slope
- Monitoring Well
- CGS Soil Boring

Key

	CGS B21 Nov - 05	MPI MP-2 Feb - 06
TPH-G	ND	<50
TPH-D	9,100	87
TPH-MO	34,000	<300

CGS or MPI Results
Monitoring Well ID
Sample Date
TPH-Gasoline
TPH-Diesel Fuel
TPH-Motor Oil
Results (µg/L)

ND = Not Detected

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Comparison of CGS and Malcolm Pirnie Groundwater Results
Site Investigation Report
Former Flour Mill Facility
Vallejo, California

February 2006 | **Figure 7-9**

Table 4-1
Groundwater Monitoring Well Construction Details
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Well ID	Location	Installation Date	Total Depth (ft bgs)	Casing Material	Casing Diameter (inches)	Screen Slot Size (inches)	Screen Interval (ft bgs)
MP-1	Area C	1/10/2006	15.5	PVC SCH 40	2	0.010	5.5 - 15
MP-2	Southwest portion of the Site	1/10/2006	15.5	PVC SCH 40	2	0.010	5.5 - 15
MP-3	Area F	1/10/2006	15.5	PVC SCH 40	2	0.010	5.5 - 15
MP-4	Area A	1/7/2006	15.5	PVC SCH 40	2	0.010	5.5 - 15
MP-5	Area D	1/7/2006	15.5	PVC SCH 40	2	0.010	5.5 - 15
MP-6	Area C	2/6/2006	15.0	PVC SCH 40	2	0.010	4.5 - 14
MP-7	Area C	2/3/06	14.5	PVC SCH 40	2	0.010	4 - 13.5
MP-8	Area C	2/3/06	14.0	PVC SCH 40	2	0.010	4 - 13.5

Notes:
ft bgs = feet below ground surface
PVC SCH = polyvinyl chloride schedule

Table 6-1
Groundwater Sampling Analysis in February 2006
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Well ID	Area	TPH-G, BTEX, EDC, EDB	TPH-D	TPH-MO	PNAs	TDS	Lead
MP-1	C	X	X	X	X	X	
MP-2	--	X	X	X		X	
MP-3	F	X	X		X	X	X
MP-4	A	X	X	X		X	
MP-5	D	X	X			X	X
MP-6	C	X	X	X	X	X	
MP-7	C	X	X	X	X	X	
MP-8	C	X	X	X	X	X	

Notes:
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel Fuel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes
EDC = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
PNA = Polynuclear aromatics
TDS = Total dissolved solid

Table 7-1
Summary of Tank Closure Confirmation Soil Sample Results
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Sample ID	Sample Depth (feet btoc)	Sample Date	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-MO (mg/kg)	Lead (mg/kg)
Tier 1 ESL[1] (mg/kg):			**100**	**500**	**500**	**200**
CS9	5.5	1/20/2006	<0.5	31	<50	8.4
CS10	5.5	1/20/2006	<0.5	**1,800**	<500	**380**
CS11	6.0	1/20/2006	<0.5	13	110	9.1
CS12	6.5	1/20/2006	<0.5	42	**580**	14
CS13	12.5	1/27/2006	2.5	69	120	51
SW-AREAC	2.5	1/20/2006	<0.5	27	<50	13
SW-AREAD	3.0	1/20/2006	<0.5	<1.0	<50	5.9
SW-AREAF-NORTH	6.0	1/27/2006	<1.1	<0.99	<49	5.3
SW-AREAF-SOUTH	6.0	1/27/2006	<0.9	1.2	<50	9.2

Notes:

[1] Tier 1 Environmental Screening Level assuming shallow soil (< 3 meters bgs), residential land

mg/kg = milligrams per kilograms

btoc = below top of casing

TPH-G = Total Petroleum Hydrocarbons as Gasoline

TPH-D = Total Petroleum Hydrocarbons as Diesel Fuel

TPH-MO = Total Petroleum Hydrocarbons as Motor Oil

Bold values indicate concentrations above the Tier 1 ESL

Table 7-2a
Summary of TPH Concentrations in Soil
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Well/Boring ID	Sample Depth (feet bgs)	Sample Date	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-MO (mg/kg)
Tier 1 ESL[1] (mg/kg):			100	500	500
MP-1	4.5	1/9/2006	<1.0	4.4	<49
MP-2	5.0	1/9/2006	<1.0	<0.99	<49
MP-3	4.5	1/9/2006	<1.0	2.6	<50
MP-4	5.0	1/7/2006	<8.0 UJ	<0.99	<50
MP-5	5.0	1/6/2006	<8.3 UJ	5.1	63
MP-6	5.0	2/3/2006	<1.0	**1,600 H**	**4,000 H**
	7.0	2/3/2006	**190**	**3,200**	170 H
	13.5	2/3/2006	1.3 H	**720 H**	**1,500 H**
MP-7	3.5	2/3/2006	<1.1	28 H	250
	13.0	2/3/2006	<1.0	450 H	**2,100 H**
MP-8	2.5	2/3/2006	<0.93	19 H	170
	13.5	2/3/2006	<1.1	2.8 H	6.8
SB1	5.0	1/31/2006	<0.93	200 H	210 H
	5.5	1/31/2006	26 H,J	**5,400**	480 H
	15.0	1/31/2006	<1.0	30 H	16 H
SB2	4.5	1/31/2006	59 H	93 H	64 H
	6.5	1/31/2006	**400 H,J**	**5,800**	470 H
	15.0	1/31/2006	<1.0	71 H	88 H
SB3	4.5	1/31/2006	1.2 H	110 H	**640 H**
	5.5	1/31/2006	**360 H,J**	**53,000 H,J**	**22,000 H,J**
	15.0	1/31/2006	<1.0	27 H	51 H
SB4	4.5	1/31/2006	<1.1	210 H	480
	6.0	1/31/2006	**290 H**	**5,400 J**	**950 H,J**
	13.0	1/31/2006	5.4 H	**970 J**	410 H,J
SB5	5.5	1/31/2006	2.6 H	**730 H**	310 H
	6.5	1/31/2006	**300 H**	**13,000 J**	**3,000 H,J**
	15.5	1/31/2006	<0.98	190 H	**580**
SB6	4.5	1/31/2006	<1.0	16 H	9.1 H
	6.0	1/31/2006	**200 H**	**3,600 J**	**570 H,J**
	14.5	1/31/2006	8.9 H	230	34 H
SB7	3.5	1/31/2006	<1.0	360 H,J	**2,000 J**
	6.0	1/31/2006	43 H	**1700 J**	170 H
	15.0	1/31/2006	<0.98	100 H	170
SB8	6.0	1/31/2006	<1.0	**3,100 H,J**	**1,600 H,J**
	16.0	1/31/2006	<0.94	25 H	53
SB10	4.5	2/1/2006	1.1 H	110 H	240 H
	13.0	2/1/2006	**620 H**	**8,300 J**	**610 H,J**
	15.5	2/1/2006	**330 H**	**4,600 J**	300 H,J
SB12	3.5	2/1/2006	<0.98	280 H	**790**
	13.0	2/1/2006	**370 H,J**	**12,000**	**610 H**
	15.5	2/1/2006	43 H	**1,500 J**	60 H,J
SB13	4.5	2/1/2006	<0.93	21 H	100
	6.5	2/1/2006	**860 H**	**16,000**	**1,000 H**
	16.0	2/1/2006	<1.0	17 H	28 H
SB14	11.0	2/1/2006	**160 H,J**	**3,200**	300 H
	15.0	2/1/2006	1.9 H	71	19 H
SB15	6.5	2/1/2006	<1.0	410 H	22 H
SB17	4.5	2/2/2006	<0.96	5.2 H	48
	14.5	2/2/2006	<1.0	150 H	340
SB18	4.5	2/2/2006	<0.93	9.7 H	32
	10.0	2/2/2006	<0.91	120 H	350 H
SB20	4.0	2/2/2006	<1.0	25 H	52
	5.5	2/2/2006	4.5 H	**4,800 H**	**2,100**
	9.0	2/2/2006	<0.97	370 H	**690**
SB21	4.0	2/2/2006	<0.99	7.1 H	32
	15.0	2/2/2006	<0.91	11 H	22
SB22	4.5	2/2/2006	<0.94	48 H	180 H
	14.0	2/2/2006	1.3 H	14 H	5.9 H
SB23	4.5	2/2/2006	<0.96	21 H	**550 H**
	10.0	2/2/2006	<0.96	4.8 H	5.2 H
SB24	4.5	2/2/2006	<0.93	72 H	330 H
	10.0	2/2/2006	<0.95	160 H	330 H

Notes

[1] Tier 1 Environmental Screening Level assuming shallow soil (< 3 meters bgs), residential land use

mg/kg = milligrams per kilogram bgs = below ground surface
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel Fuel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
H = Hydrocarbon chromatographic pattern does not match standard
UJ = The reporting limit is considered an estimated value
J = Estimated value

Table 7-2b
Summary of BTEX Concentrations in Soil
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Well/Boring ID	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
Tier 1 ESL[1] (mg/kg):			0.18	9.3	4.7	1.5
MP-1	4.5	1/9/2006	<0.0051	<0.0051	<0.0051	<0.0051
MP-2	5.0	1/9/2006	<0.005	<0.005	<0.005	<0.005
MP-3	4.5	1/9/2006	<0.0051	<0.0051	<0.0051	<0.0051
MP-4	5.0	1/7/2006	<0.040	<0.040	<0.040	<0.040
MP-5	5.0	1/6/2006	<0.041	<0.041	<0.041	<0.041

Notes

[1] Tier 1 Environmental Screening Level assuming shallow soil (< 3 meters bgs), residential land use

mg/kg = milligrams per kilogram
bgs = below ground surface
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes

Table 7-2c
Summary of PNA Concentrations in Soil
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Well/Boring ID	Sample Depth (feet bgs)	Sample Date	Naphthalene (mg/kg)	Acenaphthylene (mg/kg)	Acenaphthene (mg/kg)	Fluorene (mg/kg)	Phenanthrene (mg/kg)	Anthracene (mg/kg)	Fluoranthene (mg/kg)	Pyrene (mg/kg)	Chrysene (mg/kg)	Benzo[a] anthracene (mg/kg)	Benzo[b] fluoranthene (mg/kg)	Benzo[k] fluoranthene (mg/kg)	Benzo[a] pyrene (mg/kg)	Indeno[1,2,3-cd] pyrene (mg/kg)	Benzo[g,h,i] perylene (mg/kg)
Tier 1 ESL[1] (mg/kg):			4.5	13	19	8.9	11	2.8	40	85	3.8	0.38	0.38	0.38	0.038	0.38	27
MP-1	4.5	1/9/2006	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
MP-2	5.0	1/9/2006	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
MP-3	4.5	1/9/2006	<0.066	<0.066	<0.066	<0.066	0.14	<0.066	0.13	0.15	0.077	<0.066	0.11	<0.066	0.12	0.082	0.074
MP-4	5.0	1/7/2006	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066
MP-5	5.0	1/6/2006	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067	<0.067
SB4	6.0	1/31/2006	0.31	0.34	0.85	3.7	5.4	0.47	<0.2	0.23	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SB6	6.0	1/31/2006	<0.13	<0.13	0.28	0.14	0.21	0.3	0.14	0.21	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13
SB10	13.0	2/1/2006	0.51	0.44	1.1	4.4	6.2	0.64	0.26	0.34	0.12	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
SB12	13.0	2/1/2006	0.34	0.43	1.1	4.3	6.3	0.6	0.3	0.28	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
SB20	4.0	2/2/2006	0.0069	<0.005	0.013	0.013	0.042	<0.005	0.03	0.023	0.0071	0.0067	0.005	<0.005	<0.005	<0.005	<0.005
	5.5	2/2/2006	210	<10	160	100	360	39	240	170	38	45	26	20	27	<10	11
	9.0	2/2/2006	0.28	<0.025	0.23	0.17	0.61	0.074	0.44	0.44	0.11	0.11	0.086	0.059	0.096	0.055	0.076
SB24	4.5	2/2/2006	<0.0099	<0.0099	<0.0099	<0.0099	0.033	<0.0099	0.031	0.03	0.015	<0.0099	0.011	<0.0099	<0.0099	<0.0099	0.011
	10.0	2/2/2006	0.011	<0.0051	0.029	0.025	0.13	0.017	0.096	0.11	0.032	0.026	0.019	0.013	0.025	0.016	0.025

Notes
[1] Tier 1 Environmental Screening Level assuming shallow soil (< 3 meters bgs), residential land use
mg/kg = milligrams per kilogram
bgs = below ground surface
PNA = Polynuclear Aromatics

Table 7-3
Summary of Geotechnical Test Results
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Sample ID	Sample Depth (ft bgs)	USCS Soil Type	Range of Specific Gravity	Wet Density (pcf)	Moisture Content (%)	Dry Density (pcf)	Degree of Saturation (%)	Range of Organic Matter (% by dry weight)
GB-1	5.0-7.5	ML	2.696 - 2.732	107.3	31.1	81.8	80.6	4.9 - 5.3
GB-1	11.0-13.5	CH-OH	2.687-2.755	95.4	75.3	54.4	97.8	6.2 - 6.5

Notes:
ft bgs = feet below ground surface
pcf = per cubic foot

Table 7-4
Summary of Groundwater Elevation Data
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Well ID	Top of Casing Elevation (feet, msl[1])	Well Depth (feet)	Depth to Water Measurement Date	Depth to Water (feet, bgs[2])	Groundwater Elevation (feet, msl[1])
MP-1	9.72	15.37	1/12/2006	3.97	5.75
			2/9/2006	4.47	5.25
MP-2	10.53	15.41	1/12/2006	4.10	6.43
			2/9/2006	4.88	5.65
MP-3[3]	11.23	14.14	1/12/2006	4.35	6.88
	11.42		2/9/2006	5.05	6.37
MP-4	10.64	15.36	1/12/2006	3.82	6.82
			2/9/2006	4.30	6.34
MP-5	12.79	15.23	1/12/2006	5.91	6.88
			2/9/2006	6.40	6.39
MP-6	11.18	14.37	2/9/2006	5.11	6.07
MP-7	10.23	14.16	2/9/2006	4.94	5.29
MP-8	10.71	13.75	2/9/2006	5.42	5.29

[1] mean sea level

[2] below ground surface

[3] Top-of-casing was damaged during UST removal. Top-of-casing was reconstructed and resurveyed on 02/09/2006

Table 7-5
Summary of Groundwater Analytical Results
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

			Concentrations (µg/L)									
Well ID	Screen Depth (feet btoc)	Sample Date	TPH-G	TPH-D	TPH-MO	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,2-DCA	MTBE	EDB
Tier 1 ESL[1] (µg/L)			500	640	640	46	130	290	130	200	1,800	160
MP-1	5.5 - 15.0	1/12/2006	100	3,100	1,500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
		1/12/2006 duplicate	130	3,300	1,800	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
		2/10/2006	83	5,800 H	3,800	<0.5	<0.5	<0.5	<1	<0.5	--	<0.5
MP-2	5.5-15.0	1/12/2006	<50	<50	<500	<0.5	2.1	<0.5	<1	<0.5	<0.5	<0.5
		2/9/2006	<50	87 H	<300	<0.5	2.5	<0.5	<1	<0.5	--	<0.5
MP-3	5.5-15.0	1/12/2006	<50	290	<500	<0.5	0.74	<0.5	1.5	<0.5	<0.5	<0.5
		2/10/2006	<50	210 H	--	<0.5	0.84	<0.5	0.93	<0.5	--	<0.5
MP-4	5.5-15.0	1/12/2006	<50	<50	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
		2/9/2006	<50	<50	<300	<0.5	<0.5	<0.5	<1	<0.5	--	<0.5
MP-5	5.5-15.0	1/12/2006	<50	86	<500	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5
		2/9/2006	<50	<50	--	<0.5	<0.5	<0.5	<1	<0.5	--	<0.5
MP-6	4.5 - 14.0	2/10/2006	79	9,600 H	630	<0.5	2.7	<0.5	1.1	<0.5	--	<0.5
MP-7	4.0 - 13.5	2/10/2006	<50	690 H	550	<0.5	0.8	<0.5	<1	<0.5	--	<0.5
		2/10/2006 duplicate	<50	790 H	640	<0.5	0.75	<0.5	0.53	<0.5	--	<0.5
MP-8	4.0 - 13.5	2/9/2006	<50	320 H	460	<0.5	0.69	<0.5	0.68	<0.5	--	<0.5
Trip Blank	--	1/12/2006	<50	--	--	<0.5	<0.5	<0.5	<1	0.52	<0.5	<0.5
		2/9/2006	<50	--	--	<0.5	<0.5	<0.5	<1	<0.5	--	<0.5

Notes

[1] Tier 1 Environmental Screening Level assuming residential land use.

µg/L = micrograms per liter
btoc = below top of casing

TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel Fuel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
H = Hydrocarbon chromatographic pattern does not match standard

1,2-DCA = 1,2-Dichloroethane
MTBE = Methyl-tert-butyl ether
EDB = 1,2-Dibromomethane

Table 7-5
Summary of Groundwater Analytical Results
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Well ID	Screen Depth (feet btoc)	Sample Date	Concentrations (µg/L)										
			Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a] anthracene	Chrysene	Benzo[a] pyrene
Tier 1 ESL[1] (µg/L)			24	30	23	3.9	4.6	0.73	8.0	2.0	0.027	0.35	0.014
MP-1	5.5 - 15.0	1/12/2006	<2.1	<2.1	<2.1	3.2	3.7	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
		1/12/2006 duplicate	<2.1	<2.1	<2.1	3.7	3.5	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
		2/10/2006	<0.5	<0.5	1.4	1.7	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MP-2	5.5-15.0	1/12/2006	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ
		2/9/2006	--	--	--	--	--	--	--	--	--	--	--
MP-3	5.5-15.0	1/12/2006	17	<2.1	2.1	4.7	10	<2.1	2.3	<2.1	<2.1	<2.1	<2.1
		2/10/2006	4.5	0.6	0.7	1.6	3.8	0.7	1.2	1.2	0.2	0.2	0.1
MP-4	5.5-15.0	1/12/2006	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ	<2.1 UJ
		2/9/2006	--	--	--	--	--	--	--	--	--	--	--
MP-5	5.5-15.0	1/12/2006	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
		2/9/2006	--	--	--	--	--	--	--	--	--	--	--
MP-6	4.5 - 14.0	2/10/2006	<0.5	<0.5	0.8	1.3	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MP-7	4.0 - 13.5	2/10/2006	4.5	<0.1	3.8	1.8	2.0	0.3	0.3	0.3	<0.1	<0.1	<0.1
		2/10/2006 duplicate	5.5	<0.1	4.4	2.0	2.2	0.3	0.4	0.3	<0.1	<0.1	<0.1
MP-8	4.0 - 13.5	2/9/2006	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Trip Blank	--	1/12/2006	--	--	--	--	--	--	--	--	--	--	--
		2/9/2006	--	--	--	--	--	--	--	--	--	--	--

Notes
[1] Tier 1 Environmental Screening Level assuming residential land use.

µg/L = micrograms per liter
btoc = below top of casing

UJ = The reporting limit is considered an estimated value

Table 7-5
Summary of Groundwater Analytical Results
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

			Concentrations	
Well ID	Screen Depth (feet btoc)	Sample Date	TDS (mg/L)	Lead (µg/L)
		Tier 1 ESL[1] (µg/L)	3,000	2.5
MP-1	5.5 - 15.0	1/12/2006	--	--
		1/12/2006 duplicate	--	--
		2/10/2006	2,660	--
MP-2	5.5-15.0	1/12/2006	--	--
		2/9/2006	1,800	--
MP-3	5.5-15.0	1/12/2006	--	--
		2/10/2006	560	<3.0
MP-4	5.5-15.0	1/12/2006	--	--
		2/9/2006	410	--
MP-5	5.5-15.0	1/12/2006	--	--
		2/9/2006	680	<3.0
MP-6	4.5 - 14.0	2/10/2006	1,280	--
MP-7	4.0 - 13.5	2/10/2006	4,170	--
		2/10/2006 duplicate	4,150	--
MP-8	4.0 - 13.5	2/9/2006	13,300	--
Trip Blank	--	1/12/2006	--	--
		2/9/2006	--	--

Notes
[1] Tier 1 Environmental Screening Level assuming residential land use.

µg/L = micrograms per liter
btoc = below top of casing
mg/L = milligrams per liter
TDS = Total Dissolved Solids

Table 7-6
Comparison of CGS and Malcolm Pirnie Groundwater Results
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Boring/Well ID	Sample Date	TPH-G (µg/L)	TPH-D (µg/L)	TPH-MO (µg/L)
Tier 1 ESL[1] (µg/L)		500	640	640
B4	Nov-05	**4,400 H**	**14,000 S**	**1,900**
MP-5	Jan-06	<50	86	<500
	Feb-06	<50	<50	--
B11	Nov-05	240 H	**1,500,000 H**	**650,000**
MP-4	Jan-06	<50	<50	<500
	Feb-06	<50	<50	<300
B13	Nov-05	ND	**8000 H**	**16,000**
MP-3	Jan-06	<50	290	<500
	Feb-06	<50	210 H	--
B14	Nov-05	370 H	**220,000 H**	**89,000**
MP-1	Jan-06	100	**3,100**	**1,500**
	Feb-06	83	**5,800 H**	**3,800**
B21	Nov-05	ND	**9,100 H**	**34,000**
MP-2	Jan-06	<50	<50	<500
	Feb-06	<50	87 H	<300

Notes:
[1] Tier 1 Environmental Screening Level assuming residential land use
H = Hydrocarbon chromatographic pattern does not match standard
S = Refers to stoddard solvent/mineral spirits
µg/L = micrograms per liter
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel Fuel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
ND = Not detected

Table 9-1
Groundwater Sampling Analysis for March 2006
Site Investigation Report
Former Flour Mill Facility, 800 Derr Street, Vallejo, California

Well ID	Area	TPH-G, BTEX, EDC, EDB	TPH-D	TPH-MO	PNAs	TDS	Lead
MP-1	C	X	X	X	X	X	
MP-2	--	X	X	X		X	
MP-3	F	X	X	X	X	X	X
MP-4	A	X	X	X		X	
MP-5	D	X	X	X		X	X
MP-6	C	X	X	X	X	X	
MP-7	C	X	X	X	X	X	
MP-8	C	X	X	X	X	X	

Notes:
TPH-G = Total Petroleum Hydrocarbons as Gasoline
TPH-D = Total Petroleum Hydrocarbons as Diesel Fuel
TPH-MO = Total Petroleum Hydrocarbons as Motor Oil
BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes
EDC = 1,2-Dichloroethane
EDB = 1,2-Dibromoethane
PNA = Polynuclear aromatics
TDS = Total dissolved solids

APPENDIX A

Summary of CGS Phase II Soil and Groundwater Analytical Results

TABLE 1

SOIL ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
800 DERR STREET
VALLEJO, CALIFORNIA

Sample ID	TPH-g	TPH-d	TPH-mo
B1-3.0	ND 1.0	7.2,g,b	15
B2-3.0	ND 1.0	14,g,b	32
B4-3.0	ND 1.0	ND 1.0	ND 5.0
B5-3.0	ND 1.0	ND 1.0	ND 5.0
B6-3.5	ND 1.0	1.6,g	11
B7-7.0	ND 1.0	5.5,c	5.6
B8-4.5	ND 1.0	ND 1.0	ND 5.0
B9-4.0	ND 1.0	ND 1.0	ND 5.0
B10-3.5	1.9,g	2.4,d,b	ND 5.0
B11-3.5	ND 1.0	2.0,b	ND 5.0
B12-3.5	ND 1.0	4.8,g,b	32
B13-3.5	ND 1.0	ND 1.0	ND 5.0
B14-3.5	ND 1.0	19,c,g	29
B16-7.5	ND 1.0	7.2,g,b	12
B17-6.5	ND 1.0	ND 1.0	ND 5.0
B18-3.5	ND 1.0	ND 1.0	ND 5.0
B19-4.0	ND 1.0	7.3,g	66
B20-2.0	ND 1.0	37,g,b	280
B21-3.5	ND 1.0	2.6,g	8.6
B22-3.5	ND 1.0	ND 1.0	ND 5.0
B23-3.5	ND 1.0	ND 1.0	ND 5.0
[redacted]	100	100	500
[redacted]	100	100	1000

[redacted]

1. Analytical results are presented in milligrams per kilogram (mg/kg).
2. RWQCB ESL refers to the Regional Water Quality Control Board Environmental Screening Level assuming groundwater is a current or potential source of drinking water for shallow soils less than or equal to approximately 10 feet below ground surface (RWQCB, February 2005, Table A), for residential and commercial/industrial (comm/ind) land uses.
3. Samples were analyzed using EPA Method 8015C.
4. TPH-g comments:
   g refers to strongly aged gasoline or diesel range compounds are significant.
5. TPH-d and TPH-mo comments
   b refers to diesel range compounds are significant; no recognizable pattern.
   c refers to aged diesel (?) is significant.
   d refers to gasoline range compounds are significant.
   g refers to oil range compounds are significant.

TABLE 2

SOIL ANALYTICAL RESULTS
VOLATILE ORGANICS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
800 DERR STREET
VALLEJO, CALIFORNIA

Sample ID	n-Butyl benzene	4-Isopropyl toluene	Tetrachloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene
B1-3.0	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B2-3.0	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B3-4.0	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B4-3.0	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B5-3.0	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B6-3.5	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B7-7.0	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B8-4.5	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B9-4.0	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B10-3.5	0.014	0.0055	ND 0.005	0.034	0.0064
B11-3.5	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B12-3.5	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B13-3.5	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B15-3.5	ND 0.005	ND 0.005	**0.18**	ND 0.005	ND 0.005
B16-7.5	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
B17-6.5	ND 0.005	ND 0.005	ND 0.005	ND 0.005	ND 0.005
RWQCB ESL res	-	-	**0.087**	-	-
RWQCB ESL comm/ind	-	-	0.24	-	-

Notes:

1. Analytical results are presented in milligrams per kilogram (mg/kg).
2. RWQCB ESL refers to the Regional Water Quality Control Board Environmental Screening Level assuming groundwater is a current or potential source of drinking water for shallow soils less than or equal to approximately 10 feet below ground surface (RWQCB, February 2005, Table A), for residential (res) and commercial/industrial (comm/ind) land uses.
3. Samples were analyzed using EPA Method 8260B.
4. Analytical results are shown in bold if regulatory levels are exceeded.

TABLE 3

SOIL ANALYTICAL RESULTS
METALS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
800 DERR STREET
VALLEJO, CALIFORNIA

Metals	Sample ID B17-6.5	B18-3.5	B19-4.0	B20-2.0	B21-3.5	B22-3.5	B23-3.5	RWQCB ESL residential	RWQCB ESL comm/ind	TTLC	STLC	STLC SL
Antimony	0.73	0.65	ND 0.5	3.4	0.89	0.65	0.65	6.1	40	500	15	150
Arsenic	**19**	4.2	1.5	**8.6**	**8**	**10**	**7.7**	**5.5**	**5.5**	500	5	50
Barium	330	81	46	350	190	310	270	750	1500	10000	100	1000
Beryllium	0.58	0.59	ND 0.5	0.62	ND 0.5	0.55	0.54	4	8	75	0.75	7.5
Cadmium	ND 0.25	ND 0.25	1.5	0.87	0.36	ND 0.25	ND 0.25	1.7	7.4	100	1	10
Chromium	47	**59**	18	32	**52**	**56**	**54**	**58**	**58**	2500	5	**50**
Cobalt	**15**	**23**	**29**	**13**	**19**	**25**	**19**	**10**	**10**	8000	80	800
Copper	53	67	72	51	62	81	73	230	230	2500	25	250
Lead	7.5	10	1.7	**180**	16	9.1	10	**150**	750	1000	5	**50**
Mercury	0.1	0.11	0.42	0.18	0.06	0.11	0.08	3.7	10	20	0.2	2
Molybdenum	ND 0.5	ND 0.5	ND 0.5	1.2	ND 0.5	ND 0.5	ND 0.5	40	40	3500	350	3500
Nickel	48	65	55	44	71	71	55	150	150	2000	20	200
Selenium	ND 0.5	ND 0.5	0.90	ND 0.5	ND 0.5	ND 0.5	ND 0.5	10	10	100	1	10
Silver	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	20	40	500	5	50
Thallium	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	1	13	700	7	70
Vanadium	91	83	**280**	72	82	93	**110**	**110**	**200**	2400	24	240
Zinc	87	120	98	300	110	110	110	600	600	5000	250	2500

Notes:

1. Analytical results are presented in milligrams per kilogram (mg/kg).
2. RWQCB ESL refers to the Regional Water Quality Control Board Environmental Screening Level assuming groundwater is a current or potential source of drinking water for shallow soils less than or equal to approximately 10 feet below ground surface (RWQCB, February 2005, Table A). for residential and commercial/industrial (comm/ind) land uses.
3. TTLC refers to Total Threshold Limit Concentration.
4. STLC refers to Soluble Threshold Limit Concentration.
5. STLC SL refers to Soluble Threshold Limit Concentration Screening Level.
6. Samples were analyzed using EPA Method 6020A.
7. Analytical results are shown in bold if regulatory levels are exceeded.

TABLE 4

GROUNDWATER ANALYTICAL RESULTS
TOTAL PETROLEUM HYDROCARBONS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
800 DERR STREET
VALLEJO, CALIFORNIA

Sample ID	TPH-g	TPH-d	TPH-mo
B4	**4400,a,i**	**14000,n,i**	**1900**
B5	**510,a,i**	**2500,c,b,d,i**	**4500**
B8	ND 50	ND 50	ND 250
B9	ND 50	**720,g,b**	**1600**
B10	65,b,i	**4000,g,b,i**	**5200**
B11	**240,g,h,i**	**1500000,c,g,h,i**	**650000**
B12	ND 50,i	**2600,b,g,i**	**5100**
B13	ND 50,i	**8000,b,g,i**	**16000**
B14	**370,g,m,h**	**220,000,a,h**	**89000**
B17	ND 50	73,b	ND 250
B18	ND 50,i	**200,b,g,i**	**830**
B19	ND 50	**4300,g,b**	**12000**
B20	ND 50	**250,b,g**	**440**
B21	ND 50	**9100,g,b**	**34000**
B22	ND 50	**1500,g,b**	**8600**
B23	ND 50	**1400,g,b**	**7600**
RWQCB ESL	**100**	**100**	**100**

Notes:

1. Analytical results are presented in micrograms per liter (ug/L).
2. RWQCB ESL refers to the Regional Water Quality Control Board Environmental Screening Level assuming groundwater is a current or potential source of drinking water for shallow soils less than or equal to approximately 10 feet below ground surface (RWQCB, February 2005, Table A).
3. Samples were analyzed using EPA Method 8015C.
4. Analytical results are shown in bold if regulatory levels are exceeded.
5. TPHg comments:
   a refers to unmodified or weakly modified gasoline is significant.
   g refers to strongly aged gasoline or diesel range compounds are significant.
   h refers to lighter than water immiscible sheen/product is present.
   i refers to liquid sample that containes greater than approximately 1 volume percentage of sediment.
6. TPHd and TPHmo comments
   a refers to unmodified or weakly modified diesel is significant.
   b refers to diesel range compounds are significant;no recognizable pattern.
   c refers to aged diesel (?)is significant.
   d refers to gasoline range compounds are significant.
   g refers to oil range compounds are significant.
   h refers to lighter than water immiscible sheen/product is present.
   i refers to liquid sample that containes greater than approximately 1 volume percentage sediment.
   n refers to stoddard solvent/mineral spirits.

TABLE 5

GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANICS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
800 DERR STREET
VALLEJO, CALIFORNIA

Sample ID	Bromodichloromethane	2-Butanone (MEK)	n-Butylbenzene	sec-Butylbenzene	Chloroform	1,1-Dichloroethane	
B4	ND 0.5	ND 2.0	14	7	1.5	ND 0.5	
B5	0.82	ND 2.0	1.5	0.94	ND 0.5	ND 0.5	
B8	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B9	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B10	ND 0.5	ND 2.0	0.53	ND 0.5	ND 0.5	ND 0.5	
B11	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B12	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B13	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	2.2	
B14	ND 0.5	3	4.7	3.6	ND 0.5	ND 0.5	
B15	ND<5.0	ND<20	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
B17	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B18	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B19	ND 0.5	3.7	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B20	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B21	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B22	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
B23	ND 0.5	ND 2.0	ND 0.5	ND 0.5	ND 0.5	ND 0.5	
RWQCB ESL	100	4200	-	-	70	5	
DHS MCL	-	-	-	-	-	5	

Notes:
1. Analytical results are presented in micrograms per liter (ug/L).
2. RWQCB ESL refers to the Regional Water Quality Control Board Environmental Screening Level assuming groundwater is a current or potential source of drinking water for shallow soils less than or equal to approximately 10 feet below ground surface (RWQCB, February 2005, Table A).
3. Samples were analyzed using EPA Method 8260B.

TABLE 5

GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANICS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
800 DERR STREET
VALLEJO, CALIFORNIA

Sample ID	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Propylbenzene	Tetrachloroethene
B4	6.6	24	12	6.4	30	ND 0.5
B5	0.81	1.7	2	0.69	2.1	ND 0.5
B8	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B9	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B10	0.66	ND 0.5	ND 0.5	5.6	0.5	ND 0.5
B11	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B12	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B13	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B14	ND 0.5	4.8	ND 0.5	4.6	4.4	ND 0.5
B15	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B17	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B18	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B19	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B20	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B21	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B22	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B23	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5	ND 0.5
RWQCB ESL	30	-	-	17	-	5
DHS MCL	300	-	-	-	-	5

Notes:
1. Analytical results are presented in micrograms per liter (ug/L).
2. RWQCB ESL refers to the Regional Water Quality Control Board Environmental Screening Level assuming groundwater is a current or potential source of drinking water for shallow soils less than or equal to approximately 10 feet below ground surface (RWQCB, February 2005, Table A).
3. Samples were analyzed using EPA Method 8260B.

TABLE 5

GROUNDWATER ANALYTICAL RESULTS
VOLATILE ORGANICS
PHASE II ENVIRONMENTAL SITE ASSESSMENT
800 DERR STREET
VALLEJO, CALIFORNIA

Sample ID	1,1,1-TCA	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylenes
B4	ND 0.5	0.76	1.3	1.7
B5	ND 0.5	ND 0.5	0.64	ND 0.5
B8	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B9	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B10	ND 0.5	5.8	1.5	5.5
B11	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B12	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B13	3.7	ND 0.5	ND 0.5	ND 0.5
B14	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B15	ND<5.0	ND<5.0	ND<5.0	ND<5.0
B17	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B18	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B19	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B20	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B21	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B22	ND 0.5	ND 0.5	ND 0.5	ND 0.5
B23	ND 0.5	ND 0.5	ND 0.5	ND 0.5
RWQCB ESL	5	-	-	20
DHS MCL	200	-	-	1750

Notes:
1. Analytical results are presented in micrograms per liter (ug/L).
2. RWQCB ESL refers to the Regional Water Quality Control Board Environmental Screening Level assuming groundwater is a current or potential source of drinking water for shallow soils less than or equal to approximately 10 feet below ground surface (RWQCB, February 2005, Table A).
3. Samples were analyzed using EPA Method 8260B.

APPENDIX B

Solano County August 23, 2004 Closure Letter

SOLANO COUNTY
Department of Resource Management
470 Chadbourne Road, Suite 200
Fairfield, CA 94534
www.solanocounty.com

Telephone No: (707) 421-6765
Fax: (707) 421-4805

Birgitta Corsello, Director
Cliff Covey, Asst Director

REMEDIAL ACTION COMPLETION CERTIFICATION

August 23, 2004

MR. BRUCE ANDROTTI
GENERAL MILLS
800 DERR AVENUE
VALLEJO, CA 94590

RE: **UNDERGROUND STORAGE TANK (UST) CASE CLOSURE**, Unauthorized Release, General Mills, 800 Derr Avenue, Vallejo, SCDRM File # **29-10316-5**

Dear Mr. Androtti:

This letter confirms the completion of site investigation and corrective action for the underground storage tank(s) formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office at (707) 421-6765 if you have any questions regarding this matter.

Sincerely,

Terry Schmidtbauer, REHS
Environmental Health Manager

SOLANO COUNTY
Department of Resource Management
470 Chadbourne Road, Suite 200
Fairfield, CA 94534
www.solanocounty.com

Telephone No: (707) 421-6765
Fax: (707) 421-4805

Birgitta Corsello, Director
Cliff Covey, Asst Director

August 23, 2004

MR. BRUCE ANDROTTI
GENERAL MILLS
800 DERR AVENUE
VALLEJO, CA 94590

RE: **TRANSMITTAL LETTER, UNDERGROUND STORAGE TANK (UST) CASE CLOSURE,** Unauthorized Release, General Mills, 800 Derr Avenue, Vallejo, SCDRM File # **29-10316-5**

Dear Mr. Androtti:

Enclosed, please find one copy each of the Remedial Action Completion Certification and Case Closure Summary for your files. Please be advised that the attached information does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present, or future operations at the site.

Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. This information shall be disclosed to future property owners. Please contact me at (707) 421-6765 if you have any questions regarding this matter.

Sincerely,

Misty C. Kaltreider, CHMM, R.G.
Geologist

Enclosures: Remedial Action Completion Certification
Case Closure Summary

cc: Ms. Mary Rose Cassa, San Francisco Bay – RWQCB
Mr. Allan Patton, Fund Manager, UST Cleanup Fund Program
Ms. Jennifer Gomez, Kleinfelder

CASE CLOSURE SUMMARY
Local Oversight Program

I. AGENCY INFORMATION

Date: 8/13/2004

Agency Name: Solano County DRM
Address: 470 Chadbourne Road, Suite 200
City/State/Zip: Fairfield, CA 94534
Phone: 707/421-6765
Project Lead: Misty C. Kaltreider, RG
Title: Geologist

II. CASE INFORMATION

Site Name: **General Mills, 800 Derr Avenue, Vallejo, CA**
RB Lustis case no: SWEEPS no: **10316**
URF filing date: **5/19/2003**

Responsible Party Info.

Responsible Party	Address	Information
Mr. Bruce Androtti General Mills Vallejo Mill	800 Derr Avenue Vallejo, CA 94590	

Tank Info.

Tank No.	Size (gal)	Contents	Closed?	Closure Method	Date
1	1,000	Diesel	Yes	Removed	4/16/1987
2	1,000	Diesel	Yes	Removed	4/16/1987
3	5,000	Diesel	Yes	Removed	Jan 1988
4	5,000	Diesel	Yes	Removed	Jan 1988
5	250	Waste Oil	Yes	Removed	Jan 1988
6	1,000	Gasoline	Yes	Removed	Nov 1988
7	31,000	Heating oil	Yes	Removed	April 1993
8	250	Heating oil	Yes	Removed	4/29/2003

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: **Tank System**
Is site characterization complete? **Yes** Date approved by oversight agency: **8/13/04**
How many monitoring wells installed? **0** Proper screened interval? **NA**
Highest water depth below grade: **18 ft bgs** Lowest depth: **unknown**
Groundwater flow direction: **Regionally, West**
Most sensitive current use: **Residential/Commercial**
Are drinking wells affected? **No** Drinking water aquifer name: **N/A**
Is surface water affected? **No**
Nearest surface water body name: **Mare Island Strait**
Address/location of off-site impact: **NA**
Report(s) on file? **Yes** Where? **SCDRM**

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

CASE CLOSURE SUMMARY
Local Oversight Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Treatment and Disposal of Affected Materials

Material	Amount	Action (treatment/disposal w/destination)	Date
Soil	18 tons	Disposed at Altamont Landfill, Livermore	7/7/2004

Maximum Documented Contaminant Concentrations - before and after cleanup

Constituent	Soil (ppm)		Water (ppb)		Constituent	Soil (ppm)		Water (ppb)	
	Before	After	Before*	After**		Before	After	Before*	After**
TPH (gas)	300	6.9	<50	<50	Xylenes	<5	<0.005	<0.5	NA
TPH (diesel)	3,900	260	260	<50	Ethylbenzene	<5	<0.005	<0.5	NA
Benzene	<5	<0.005	<0.5	NA	Oxygenates	<5	NA	<0.5	NA
Toluene	<5	7.6	<0.5	NA	Lead	70	NA	NA	NA

Notes: NA = not analyzed
Oxygenates = MtBE, DIPE, ETBE, TAME, TBA, Methanol, and Ethanol

COMMENTS (DEPTH OF REMEDIATION, ETC.):

Seven underground storage tanks were removed from 1987 through 1993. The USTs were located on the property and associated with the General Mills commercial facility. Subsurface assessment and limited overexcavation occurred and the release(s) were accepted for closure and no further action on September 9, 1996.

In April 2003, one 250-gallon heating oil tank was uncovered on site. The tank was associated with the historic residence (Plant Residence), located northeast of the General Mills plant operations. The tank was located adjacent to a home that has existed on site since the 1900s. Concentrations in the soil samples collected during the tank removal reported up to 3,900 mg/Kg diesel. Based on the results of the work, an unauthorized release of petroleum hydrocarbons has occurred.

The tank pit was overexcavated to approximately 15 feet bgs. Subsequent soil samples collected from the excavation reported below detectable concentrations of constituents. Soil samples from borings completed adjacent to the tank excavation indicated low to below detectable concentrations of constituents. One boring (B-5) was completed into a temporary well for the collection of groundwater. Groundwater was encountered at approximately 18 feet bgs. Initial grab water samples collected from the boring reported below laboratory detection limits for TPHg and BTEX. The initial water sample analysis reported 6,100 ppb ethanol that was considered suspect. Subsequent water samples collected from B-5 reported below detectable concentrations of TPHd and ethanol.

Results of the overexcavation and subsequent verification sampling confirmed that the release was limited to the immediate area adjacent to the tank and overexcavation activities were successful in mitigating the impact.

CASE CLOSURE SUMMARY
Local Oversight Program

IV. CLOSURE

Are existing beneficial uses protected per RB Basin Plan? Yes
Are potential beneficial uses protected per RB Basin Plan? Yes
Is public health protected for current land use? Yes
Describe site management requirements: None
Should corrective action be reviewed if site use changes? No
Are MWs decommissioned? NA How many? 0 Number remaining: 0
Describe enforcement actions taken: None
Describe enforcement actions rescinded: None

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Terry Schmidtbauer, REHS Title: Environmental Health Manager
Signature: Terry Schmidtbauer Date: 8-13-04

VI. RWQCB NOTIFICATION

Date submitted to RB: 8/13/04 RB response: Concur
RWQCB Staff Name: Mary Rose Cassa, R.G. Title: Engineering Geologist
Signature: Mary Rose Cassa Date: 8/19/04

VII. ADDITIONAL COMMENTS (attach pages as necessary)

Based on the findings from the work performed to date, this identified release is considered a low-risk case. This case does not pose a threat to human health or the environment, and therefore should be closed from further investigation.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

APPENDIX C

1938 Sanborn Map (Not Included)

APPENDIX D

Generally Accepted Procedures

Generally Accepted Procedures

The following Generally Accepted Procedures (GAPs) were used to conduct the field work to conduct the Site Investigation:

1. Monitoring Well Installation using Hollow Stem Augers
2. Geoprobe Boring
3. Geotechnical Boring with Shelby Tube Sampling
4. EnCore Sampling
5. Well Development
6. Surveying
7. Low Flow Groundwater Sampling
8. Groundwater Level Measurements
9. Sample Container, Preservation, and Handling
10. Decontaminating Field Sampling Equipment

1. Monitoring Well Installation using Hollow Stem Augers

Installation of groundwater monitoring wells includes hand clearing the boring location, advancing the soil boring to a pre-determined depth, installing well casing, filter pack and seal materials, and completing the well with a surface containment box specific for the intended use and site conditions.

Hand auger to between 2.5 feet and 5 feet bgs depending of the surface and subsurface conditions using a post hole digger. If a hand auger is to be used, then the boring shall be cleared in two to three separate locations, depending on the size of the augers to be used. Hand augering is intended to identify the presence of underground utilities at the location specified.

Clear the surface of debris and then advance the soil boring using eight- to twelve-inch-diameter hollow-stem augers. The hollow-stem augers consisted of a hollow, steel shaft with a continuous, spiraled steel flight welded onto the exterior side of the stem. The flights transports cuttings to the surface when rotated..

Depth specific or continuous coring can be completed using a California split-spoon sampler (2-inch inside diameter, 18-inch length). The split-spoon sampler is driven into the undisturbed soil (ahead of the auger flights) using a 140-pound hammer falling 30 inches. Soil lithology is recorded in the field by the on-site geologist or engineer. Boring logs included the following information: boring number and location; soil sample identification numbers; sample time; sample depth; lithologic description in accordance with the Unified Soil Classification System; description of any visible evidence of soil contamination (e.g., odor or staining); and PID readings.

Following borehole advancement, the well is constructed using two-inch-diameter, 0.010-inch factory-slotted and blank polyvinyl chloride (PVC) casing. Slotted casing extends from the base of the boring to above the groundwater table. The remaining well casing is completed using blank PVC. The well annulus is backfilled with Lonestar No. 2/12 silica sand from the bottom of the borehole to 6-inches to one-foot above the top of the screen interval. The screen interval is then surged for 15 minutes to allow the filter-pack material to settle. The depth of the filter pack is then measured and additional sand is added to return the filter-pack to its pre-surge height. One foot of bentonite chips shall be added on top of filter pack and properly hydrated before filling the remainder of the annulus with neat cement grout to one foot bgs. Complete the well suing a flush-mounted, traffic-rated, well containment box or stove pipe, set in concrete.

2. Geoprobe Boring

Hand augering was performed from the base of the asphalt (if present) to a maximum depth of 2 to 4 feet bgs to confirm that no unidentified utilities (e.g., non-metallic pipes) are encountered and possibly damaged during drilling. Borings advanced using a Geoprobe™ direct-push drill rig, which advanced sampling equipment using a hydraulic hammer or vibrator. Continuous soil cores were collected using a Macro Core Sampler or a Dual Tube Sampler. As the Sampler is advanced, soil is driven into an inner 1¾-inch-diameter by 4-foot-long sample barrel lined with a plastic sleeve. After being driven 4 feet, the Sampler and rods will be removed from the borehole, and the plastic sleeve containing the soil removed from the sample barrel. Selected 6-inch-long sections were cut and sealed for laboratory analysis. Remaining soil was used for lithologic description and visual contaminant inspection. The Sampler was decontaminated, lined with a new plastic sleeve, and lowered back into the soil boring. An additional 4-foot-long section of drill rod will be added, and the sampling process repeated. Upon completion, each boring was grouted with a bentonite/cement grout to ground surface. During drilling operations, a photoionization detector (PID) was be used to monitor for the presence and concentration of organic vapors in the soil core.

Boring logs, completed in the field by the on-site geologist, included the following information: boring number and location; soil sample identification numbers; sample time; sample depth; lithologic description in accordance with the Unified Soil Classification System; description of any visible evidence of soil contamination (e.g., odor or staining); and PID readings.

3. Geotechnical Boring with Shelby Tube Sampling

The geotechnical boring was advanced to 5 feet bgs. A thin-walled stainless steel tube (Shelby Tube) was inserted into the sampler. The sampler was then attached to the drilling rod and lowered to into the borehole. A hammer was used to drive the sampler into the undisturbed soil just below the bottom of the borehole. The sampler was then removed from the hole and the Shelby Tube extracted from the sampler. This procedure was repeated at 11 feet bgs, depth of the second sample collected for geotechnical test, after the equipment was decontaminated as required. The Shelby Tubes were capped and stored until delivery to the geotechnical laboratory. The samples were transported to Ninyo & Moore laboratory in Oakland, California and tested for geotechnical parameters.

4. EnCore Sampling

PURPOSE/APPLICATION

The En Core® sampling device is designed to facilitate soil sample collection with minimal handling by field personnel. The En Core® sampler is used for collection, storage and delivery of soil samples. It is a disposable, self-contained sampler, and thus is ideal for the collection of soils containing volatile organic compound (VOC) concentrations. In accordance with USEPA SW-846 Method 5035, soil samples collected with the En Core® sampler do not require field preservation if received and preserved by an analytical laboratory within 48 hours of sample collection. The En Core® sampling device is most applicable for collection of cohesive soils, such as those containing clay or silt matrix material. The En Core® sampler typically is not effective for collection of noncohesive soils, coarse gravels and till. Coarse sediment clasts also may not fit inside the sampler coring body.

RECOMMENDED EQUIPMENT

- 5 gram disposable En Core® sampler.
- Standard En Core® T-handle.
- Protective gloves.

EQUIPMENT DECONTAMINATION PROCEDURES

The sampler is disposable, therefore no decontamination is necessary. The T- handle can be cleaned with low phosphate detergent (Alconox or equivalent) and water.

PROCEDURES

Before Taking Sample:

1. Hold coring body and push plunger rod down until small o-ring rests against tabs (Figure 1). This will assure that plunger moves freely.

2. Depress locking lever on En Core® T-handle. Place coring body, plunger end first, into open end of T-handle, *aligning the (2) slots on the coring body with the (2) locking pins in the T-handle.* Twist coring body clockwise to lock pins in slots. Check to ensure sampler is locked in place. Sampler is ready for use.

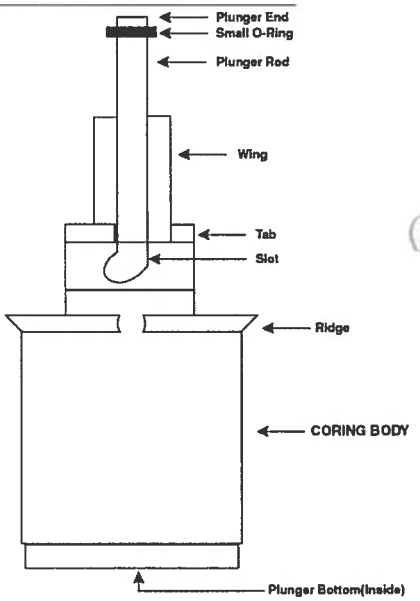


Figure 1. En Core® sampling Device

Taking Sample:

3. Turn T-handle with T-up and coring body down (Figure 2). This positions the plunger bottom flush with bottom of coring body (ensure that plunger is in position). Using T-handle, push sampler into soil until coring body is completely full. When full, small o-ring will be centered in T-handle viewing hole. Wipe excess soil from sampler. Wipe excess soil from coring body exterior.

4. Cap coring body while it is still on T-handle. Push cap over flat area of ridge (Figure 3). ***Push and twist cap to lock arm in place. Cap must be seated to seal sampler.***

5. To ensure sufficient sample volume, collect three En Core® samples for each sample point.

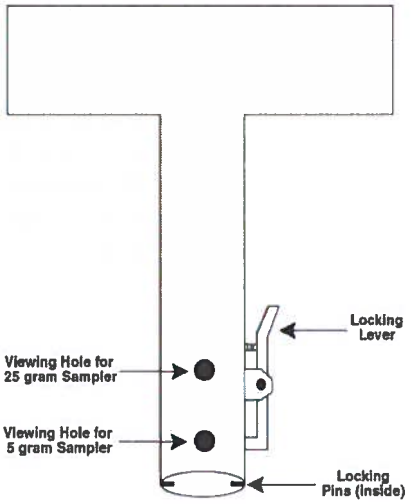


Figure 2. T-handle

Sampler Correctly Capped
Locking arm grooves seated over coring body ridge

Sampler Incorrectly Capped
Cap appears crooked; locking arm grooves not fully seated over coring body ridge

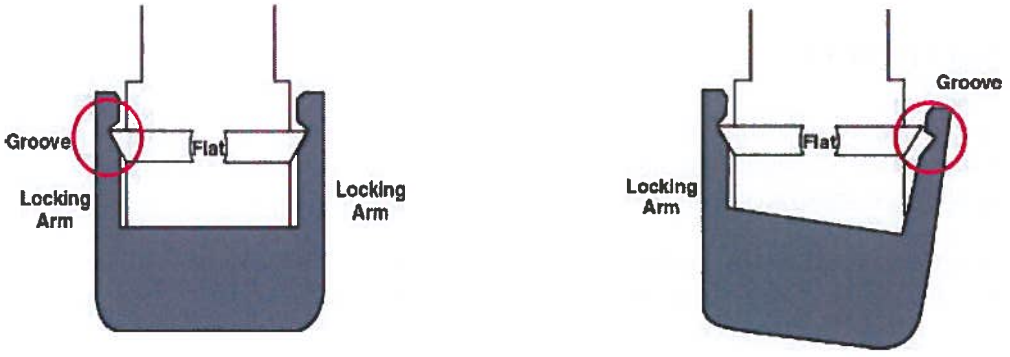


Figure 3. The En Core® sampler capped correctly and incorrectly.

Preparing Sampler for Shipment:

6. Remove capped sampler by depressing locking lever on T-handle while twisting and pulling sampler from T-handle.
7. Lock plunger by rotating extended plunger rod fully counter-clockwise until wings rest firmly against tabs (Figure 4).
8. Attach completed label to cap on coring body.
9. Return En Core® Sampler to zipper bag. Seal bag and put on ice.
10. Samples must be received and preserved at an analytical laboratory within 48 hours of collection.

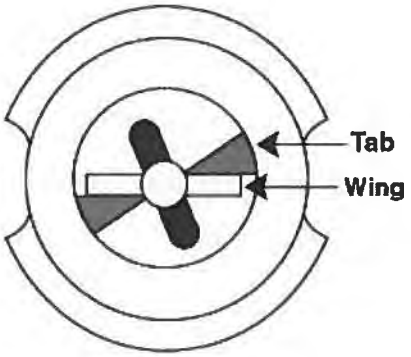


Figure 4. Plunger in locked position with wings resting firmly against tabs.

REFERENCES

All procedures provided by:
En Novative Technologies, Inc.
http://www.ennovativetech.com/encore/sampling.htm

USEPA SW-846 Method 5035 can be downloaded at:
http://www.epa.gov/epaoswer/hazwaste/test/pdfs/5035.pdf

5. Well Development

Each well was developed using a similar set of procedures. Surging was performed with a surge block for 15 minutes, accompanied by bailing at least three times to remove any sediment accumulated at the bottom of the well and to clear the screen interval. Each well was then pumped using a negative air displacement pump and/or a Grundfos™ pump until a minimum of five casing volumes of water were removed.

6. Surveying

Each of the groundwater monitoring wells and soil boring were surveyed by C.S.S, a California-licensed surveyor. The survey included the well location and top of well casing elevations as referenced by the local coordinate system. The Northings, Eastings, and top of well casing elevations were surveyed and only the Northings and Eastings were surveys for the soil borings.

7. Low Flow Groundwater Sampling

1. PURPOSE/APPLICATION

This low flow groundwater purging and sampling procedure presents a standard method for collecting groundwater samples that are representative of the formation from which they are being withdrawn. By using low flow rates for purging and sampling to minimize drawdown within the well, three primary benefits gained. First, using a low flow rate during sampling promotes laminar flow, which minimizes the disturbance of sediment at the bottom of a well or fine particles in the well's filter pack. Groundwater samples are therefore less turbid, which reduces sampling time and generally eliminates the need to filter. Second, the amount of groundwater purged from the sampling well is significantly reduced, minimizing investigation derived waste. Third, low flow purging and sampling reduces aeration and therefore helps to preserves the natural chemical characteristics of the groundwater sample. Low flow sampling may be used to collect groundwater samples for analysis of contaminants of concern, as well as geo-chemical and biological parameters.

This guideline is for information purposes and should not take precedence over the requirements of project specific plans. This is especially true for federal project sites, which are governed by regionally directed United States Environmental Protection Agency (USEPA) low flow groundwater sampling protocols.

2. EQUIPMENT

Low flow groundwater sampling requires traditional groundwater sampling equipment with the addition of the following:

- # Multi-parameter water quality monitoring system (e.g. Horiba U-22 or equivalent) equipped with a flow through cell.
- # An adjustable rate, positive displacement, groundwater pump (e.g., centrifugal, submersible, or bladder pumps) constructed of stainless steel or Teflon capable of achieving low flow pumping rates (i.e., 100 to 500 ml/min).
- # Polyethylene tubing or equivalent.
- # Flow measurement device (e.g., a graduated container and stop watch).

A water level probe or oil/water interface probe.

3. PRE-SAMPLING PROCEDURES

The pre-sampling procedures for low flow groundwater sampling and purging are as follows:

1. To minimize the risk of cross-contamination, if possible, begin with the monitoring well that is known or believed to have the lowest contaminant concentrations.

2. Position a sheet of polyethylene over the monitoring well for placement of all sampling equipment.

3. Where applicable, measure the concentration of volatile organic compounds (VOCs) in the well's headspace with a photoionization detector (PID) and record the concentration in the field log book.

4. Measure and record the depth to water and if applicable, the depth to light non-aqueous phase liquid (LNAPL).

4. SAMPLING PROCEDURES

The procedures for collecting groundwater samples using low flow are as follows:

1. **Pump Installation:** Install the pump by slowly lowering the pump assembly and tubing into the well. The pump should be set to the appropriate depth with the intake being a minimum of two-feet above the bottom of the well to prevent disturbing and re-suspending any sediment at the bottom of the well.

2. **Water Level Measurement:** Measure the depth to groundwater from the top of the well casing using a water level probe. Leave the probe in the well for subsequent water level measurements.

3. **Purging:** Begin purging the well at a rate of 200 to 500 milliliters per minute (ml/min) and measure the water level. If excessive drawdown is observed in

the well (i.e. greater that 0.3 feet), reduce the flow rate until the water level stabilizes. When the water level has stabilized, subsequent measurements should be made on five minute intervals. The flow rate, as well as flow rate adjustments should be recorded on a field purge log.

4. **Field Parameter Monitoring:** Field parameters (pH, conductivity, reduction/oxidation potential, DO, and turbidity) should be recorded every five minutes with water level measurements. The well is considered stable and ready to be sampled once the field parameters are stable over three consecutive readings (USEPA Region 2, 1998). The following criteria identify stabilized field parameters:
   - ± 0.1 for pH
   - ± 3.0 percent for conductivity
   - ± 10.0 mv for redox potential
   - ± 10.0 percent for DO and turbidity

   The pump should **not** be removed or shut off between purging and sampling.

5. **Sample Collection:** If necessary, reduce the flow rate to 100 to 250 ml/min to reduce turbulence while filling sample containers during sample collection. Where wells are purged at a flow rate less than 100 ml/min, maintain the same flow rate during sample collection. Disconnect the inflow line from the flow through cell and collect the groundwater sample. All sample containers should be filled directly from the tubing. Allow water to flow from the tubing gently down the inside of the containers to minimize turbulence during sample collection. Groundwater samples should be collected in order of importance, according to the project requirements.

6. **Pump Removal:** Once sampling is complete, slowly remove the pump assembly and tubing from the well. If the tubing is dedicated to the well, disconnect the tubing from the pump, re-insert the tubing into the well, and secure the tubing so it is easily accessible.

7. **Secure Well:** Secure the top of the well casing with a locking cap or expansion plug and close the well. In the case of a stick-up protective well cover, lock the outer casing.

5. DECONTAMINATION

All dedicated or "single use" groundwater sampling equipment should be disposed in accordance with all applicable local and federal regulations. The decontamination procedures for non-dedicated low flow groundwater sampling equipment are as follows:

1. **Pre-rinse:** Operate the pump and flush equipment thoroughly with deionized or distilled water for approximately five minutes.

2. **Wash:** Operate the pump and flush equipment thoroughly with Alconox or other non-phosphate detergent solution for approximately five minutes.

3. **Rinse:** Operate the pump and flush equipment thoroughly with deionized or distilled water for approximately five minutes or until all of the detergent has been removed from the equipment.

6. REFERENCES

United States Environmental Protection Agency (USEPA) Region II, 1998, Ground Water Sampling Procedure, Low Stress (low flow) Purging and Sampling, GW Sampling SOP, March 16th.

POTENTIAL PROBLEMS/TROUBLESHOOTING

Insufficient yield, cascading, field parameters failing to stabilize, and aerating the groundwater sample are potential problems when trying to use low flow protocols to collect representative groundwater samples.

Insufficient Yield/Cascading

A low yielding well that cannot sustain a low flow purge rate may eventually go dry. The sampler should take care not to dewater the well below the top of the well screen to prevent cascading of the sand pack. Therefore, pumping a well dry should be avoided in all situations. If a well should go dry, the groundwater sample should be collected as soon as there is sufficient recharge to collect the sample. If the well has not recharged sufficiently within 48 hours, the well should not be sampled.

A low yielding well that consistently demonstrates that it cannot sustain a low flow purge rate of 250 ml/min or less should not be sampled using low flow protocols. Groundwater samples collected from low yielding wells are often representative of the stagnant groundwater within the well and the surrounding sand pack, and not representative of the geologic formation. In addition, these samples are typically very turbid, which can skew the analytical results of groundwater samples being analyzed for organic compounds and metals.

Key Field Parameters Fail to Stabilize

If any key parameters fail to stabilize within four hours of purging, then the following alternatives should be considered:

1. Continue purging until stabilization.

2. Stop purging, do not collect a sample, and document the activity.

3. Stop purging, collect a sample, and document the activity.

4. Stop purging, secure the well, and resume purging the following day.

The key parameter for samples being analyzed for VOCs is dissolved oxygen (DO). The key parameter for all other analytical samples is turbidity. Typically DO and turbidity take the longest to stabilize.

Non-stabilizing turbidity measurements may be avoided by periodically removing sediments that may be trapped in the flow through cell during purging. Trapped sediments may cause artificial fluctuations in turbidity measurements. Additionally, the sampler should visually compare the turbidity of the groundwater in the Cell with the groundwater entering the Cell. If the groundwater entering the Cell is clearer, disconnect the inflow line, drain the turbid groundwater from the Cell, and reconnect the inflow line. Turbidity readings should more accurately reflect true groundwater conditions.

Fluctuations in DO measurements may be caused by air bubbles that form in the flow through cell or sample tubing. Ensure that the inflow tubing is sealed tightly to the flow through cell to prevent the intrusion of air. It may be necessary to drain the flow through cell to remove all air bubbles that may interfere with accurate DO readings.

Aerating the Sample

To prevent inadvertently aerating the groundwater sample, the flow rate should be set so that pump suction and positive groundwater flow through the sample tubing is maintained. The sampler should minimize the length and diameter of the sample tubing. It is recommended that either one-quarter or three-eights-inch inner diameter tubing are used.

Where centrifugal pumps are being used to collect a groundwater sample from a deep well, preventing aeration and sustaining a low flow rate becomes problematic. These issues can be minimized if an impeller is removed from the pump. This allows the pump to run at a lower flow rate and reduces the potential for aerating the groundwater sample. There is also concern that the centrifugal pump will heat the groundwater sample, however, the increases in temperature rarely increases more than two degrees Celsius during sampling.

8. Groundwater Level Measurements

Depths to water measurements were collected by Malcolm Pirnie personnel utilizing an electronic measuring device incremented to 0.01-feet. Groundwater depth measurements were referenced to the top of the PVC casing of the well, from which the surveyed elevation was available. The depth to groundwater was subtracted from the top of well casing elevation to provide the groundwater elevation.

9. Sample Container, Preservation, and Handling

I. Introduction

Sample control is a vital aspect of any environmental monitoring program that generates data that may be used for regulatory purposes or as evidence in a court of law. This procedure defines the methods used to handle, preserve, and store environmental samples taken at the [Site].

II. Guidelines

The method of sample handling after collection and prior to analysis is determined by the type of test to be run and the specific parameter being quantified. Each test provides different information on the sample and therefore, requires different handling procedures. Samples are subject to chemical, biological, and physical changes as soon as they are collected. Sample handling, preservation, and storage techniques have to be designed to minimize any changes in composition of the sample by retarding chemical and/or biological activity and by avoiding contamination.

1. Handling

Sampling handling is project- and analysis- specific. The USEPA "QA/QC Guidance for Sampling and Analysis of Sediments, Water, and Tissues for Dredged Material Evaluations" provides guidance for handling and collecting samples for most analyses to be performed in the field (See Attachment 1). Each field sampling event has a specific plan listing the handling and preservation requirements, as documented in the FSP and QAPP.

2. Sample Collection Requirements

- Samples to be analyzed for trace metals should not come into contact with metals (*i.e.*, no metal utensils, jars or collection equipment.)
- Samples to be analyzed for organic compounds should not come into contact with plastics.
- For analysis of volatile compounds, samples should completely fill the storage container, leaving no airspace. These samples should be refrigerated but never frozen or the containers will crack.

- Sediment samples for biological testing should have larger (possible predatory) animals removed from the sediment by screening or press sieving prior to testing. Other material retained on the screen with the organisms, such as shell fragments, gravel, and debris, should be recorded and discarded.

3. Sample Splitting

Sufficient sample volume should be collected to perform necessary analyses. Each project manager should determine the minimum amounts needed to be collected before sampling begins. If samples are not split in the field then they should be split as soon as possible after sampling is completed. Documentation of splitting should be recorded on a Sample Split form (See Attachment 2). Each split retains its original Field Sample identification number with analysis type marked on sample label. If compositing is needed the samples will be assigned a new, unique identification field number.

4. Sample Container Requirements

All sample containers should be scrupulously cleaned (acid-rinsed for analysis of metals, solvent-rinsed for analysis of organic compounds). Container labels have to withstand soaking, drying, and freezing without becoming detached or illegible. The labeling system should be tested prior to use in the field.

Samples for other kinds of chemical analysis are sometimes frozen. Only wide-mouth ('Squat') jars should be used for frozen samples; narrow-mouth jars are less resistant to cracking. If the sample is to be frozen, sufficient air space should be left to allow expansion to take place (i.e., the wide-mouth sample container should be no more than 3/4ths full. For more specific information regarding sample containers see Attachment 1.

5. Sample Preservation

Preservation steps should be taken immediately upon collection, whether it is by refrigeration, freezing, or addition of chemicals. If final preservation techniques cannot be implemented in the field, the sample should be temporarily preserved in a manner that retains its integrity. Onboard refrigeration is easily accomplished with coolers and ice. Samples should be segregated from melting ice and cooling water. Samples that are to be frozen on board may be stored in an

onboard freezer or may simply be placed in a cooler with dry ice or blue ice.

There is no universal preservation or storage technique, although storage in the dark at 4•C is generally used for all samples held for any length of time prior to processing and for some samples after processing. If specific storage requirements are known and a technique for one group of analyses interferes with other analyses then collecting sufficient sample volume in multiple containers can prevent any storage conflicts. (See Attachment 1 for specific requirements)

6. Storage

The elapsed time between sample collection and analysis should be as short as possible. Sampling holding times for chemical evaluations are analysis-specific (See Attachment 1 for specific requirements.)

- Sediments for bioassay (toxicity and/or bioaccumulation) testing should be tested as soon as possible, preferably within 2 weeks of collection. Sediment toxicity does change with time. Studies to date suggest that sediment storage time should never exceed 8 weeks (at 4•C)

III. References

The procedure described below is a method adapted from two separate documents:

United States Environmental Protection Agency. Office of Water. 1995. "QA/QC Guidance for Sampling and Analysis of Sediments, Water, and Tissues for Dredged Material Evaluations." Report Number EPA 823-B-95-001.

United States Environmental Protection Agency/ Corps of Engineers Technical Committee on Criteria for Dredged and Fill Material. 1981. "Procedures for Handling and Chemical Analysis of Sediment and Water Samples".

Attachment 1
Sample Handling Requirements

Compound Class	Containers (Volume)	Preservation		Holding Time
		Temperature	Other	
WATER (1 L)				
SVOA, TPH	Glass with Teflon lined caps	Cool 4°C ±2°C	Store in dark	7 days
VOA	Glass with Teflon lined caps	Cool 4°C ±2°C	pH<2 Headspace ≤1% of sample No bubbles	14 days
Metals	Teflon	Cool 4°C ±2°C	Acidify with 0.2% nitric acid < 2pH	28 days (Hg) 6 months (Other metals)
SEDIMENT OR SOIL (50 g)				
SVOA	Glass with Teflon lined caps	Cool 4°C ±2°C or Frozen <20°C		14 days 1 year
VOA or TPH	Glass with Teflon lined caps	Cool 4°C ±2°C		14 days
Metals	Glass with Teflon lined caps	Cool 4°C ±2°C		28 days (Hg) 6 months (Other metals)

Attachment 2
Sample Split Form

Sample Split and Transfer Log

Project Number:_____ **Date of Work:**_____

Project Title:_____

Analysis Type (s):_____

Splitting Procedure:_____

_____

_____

(include description of amount or weight of split, packaging, storage)

Name:_____

Date:_____

Sample ID	Sample ID	Sample ID	Sample ID	Sample ID	Sample ID

Released	Received
Signature/Date: **Storage Location:**	**Signature/Date:** **Storage Location:**
Released	**Received**
Signature/Date: **Storage Location:**	**Signature/Date:** **Storage Location:**

10. Decontaminating Field Sampling Equipment

I. Introduction

This procedure describes the methods used to decontaminate sampling equipment and sample processing tools. The procedures specifically address equipment used to collect soil samples.

II. Definitions

PPE Personal Protective Equipment

III. Equipment and Supplies

The following equipment will be used to decontaminate equipment and tools used to collect sediment and soil samples:

1. **Tap water** for initial cleaning and rinsing of equipment.
2. **De-ionized water** for final rinsing of equipment after tap water or solvent rinse.
3. **Non-phosphate detergent** (e.g. Alconox™) for cleaning equipment.
4. **Dishwashing detergent** (e.g. Joy™ which provides suds in seawater) to remove oily or organic residue.
5. **Nitric acid** as a 10% solution for removing metal contaminants from equipment
6. **Organic solvent** for final cleaning of equipment (e.g. hexane)
7. **Personnel protective equipment (PPE)** - including disposable gloves (nitrile preferred), disposable wipes, eye wash system, first aid kit, and waterproof outerwear (if necessary).
8. **Re-sealable buckets** approved for waste collection and transportation.
9. **Squirt bottles** for water, alcohol, and solvents.
10. **Brushes** for cleaning equipment.
11. **Field notebooks, pens, pencils, and digital camera** to document decontamination procedures.

IV. Guidelines

The following equipment will be used to collect sediment cores and require decontamination:

1. **Rotary drilling rig** (truck-mounted or skid type) sampling equipment (e.g., split spoons). Large drilling equipment (e.g., tri-cone bits, casing, augers, rods, etc.) will be steam-cleaned only.

2. **Tripod drill** – follow procedures for drill rig above.
3. **Calibrated Steel Rod** to investigate the sediment type and probe the depth of unconsolidated sediments at a sampling location and to determine the length of tubing to use.
4. **Shelby tubes** conforming to thin-walled tube specifications outlined in ASTM D 1587 with a 3-inch O.D.
5. **Vibracorer** and ancillary equipment.
6. **Aluminum, Polycarbonate, Lexane, or Cellulose Acetate Butyrate (CAB) Tubing** of appropriate diameter (approximately 3.75 inch O.D. and 0.07 inch wall thickness) for use with the vibracoring apparatus.
7. **Stainless steel scoops, spoons, bowls, and other equipment that come into contact with the sample, are used for homogenization, or are used to segment core tubes.**

Collection of sediment, soil, and water samples for chemical analysis requires that the equipment be cleaned between sample locations to avoid sample contamination. Generally, the cleaning procedures to be followed between sample locations are as follows:

Decontaminate all sample collection tools that contact the sample as well as all bowls and mixing/distribution implements in accordance with the following procedures.

1. Rinse each item with tap water to remove mud, dirt, or other visually present material.
2. Scrub the item with a brush and soapy water, using non-phosphate detergent such as Alconox™ for non-oily residue, or a detergent (e.g. Joy™) for items with oily or other sticky organic residue.
3. Rinse the item with tap water to remove all residual soap
4. Rinse the item with 10% nitric acid to remove residual metals
5. Rinse the item with de-ionized water
6. Rinse the item with organic solvent (e.g. hexane)
7. Rinse the item with de-ionized or analyte-free water and allow to air dry.
8. Wrap the item(s) in aluminum foil or plastic bag to protect it until it is used.

All solvents must be captured and disposed of in appropriate, labeled, aqueous waste containers. All instruments that come into contact with the sample (i.e. syringe, ruler, collection buckets) must be cleaned in the same manner as the sampling device. Liquids collected into the chemical waste container must be discarded in an appropriate waste stream. Staff performing decontamination procedures need to wear appropriate PPE, gloves (e.g. nitrile) and eye protection. Care must be taken in cleaning not to allow contact of cleaning solutions with clothing as much as possible. If circumstances dictate contact will occur (e.g. high pressure washing, splashing, high wind), waterproof outer clothing must be worn (e.g. foul weather gear or rain gear).

Decontamination procedures may vary depending on specific workplan specifications, and unique contaminants of concern at specific locations. The project workplan may designate collection of equipment rinse samples to document effectiveness of cleaning.

This GAP does not address radioactive decontamination, PPE for radioactive waste, or disposal of radioactive contaminated waste material.

IV. References

American Society for Testing and Materials (ASTM), 1994. Standard Practice for Decontamination of Field Equipment Used at Nonradioactive Waste Sites. Designation: D 5088 – 90.

APPENDIX E

Soil Boring Logs and Well Construction Diagrams

MALCOLM PIRNIE

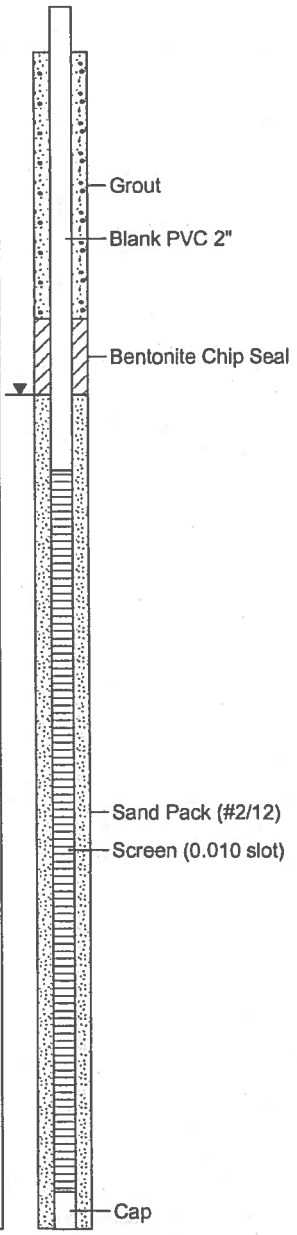
LOG OF BORING MP-1

Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 01/09/2006	Drilling Company	: Resonant Sonic
Date Completed	: 01/10/2006	Northing Coord.	: 2220489.737
Hole Diameter	: 8 inches	Easting Coord.	: 6059244.211
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S.
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Depth in Feet	Ground Surf.Elev 10.37	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery	Blow Count
0	10			0-4.5 ft Hand Augering (HA)			
		FILL		2.5-9 ft SANDY SILTY GRAVEL, small angular gravel, fine grained sand, brown, dry, loose, (55% gravel, 15% sand, 30% fines) [Soil analytical sample collected at 4.5 feet bgs]	1	HA	
5	5			Wet, dark gray with presence of residual petroleum hydrocarbons and strong odor, PID reading of 20 ppm	2	18"/18"	4/8/14
				6-7.5 ft - No recovery	3	0"/18"	23/17/10
					4	12"/18"	4/3/2
10	0	FILL		9-10.5 ft GRAVELLY SANDY SILT, small angular gravel, fine grained sand, dark gray, very moist, soft, little odor of petroleum hydrocarbons, (25%gravel, 15% sand, 60% fines), PID reading of 0.6 ppm	5	18"/18"	3/1/2
		CL		10.5-13.5 ft CLAY, bay mud, gray to black, wet, very soft, plastic, odor of sulfides	6	18"/18"	1/1/0
					7	18"/18"	4/1/2
15				Total depth at 15.5 feet bgs			

Well: MP-1
Elev.: 9.72



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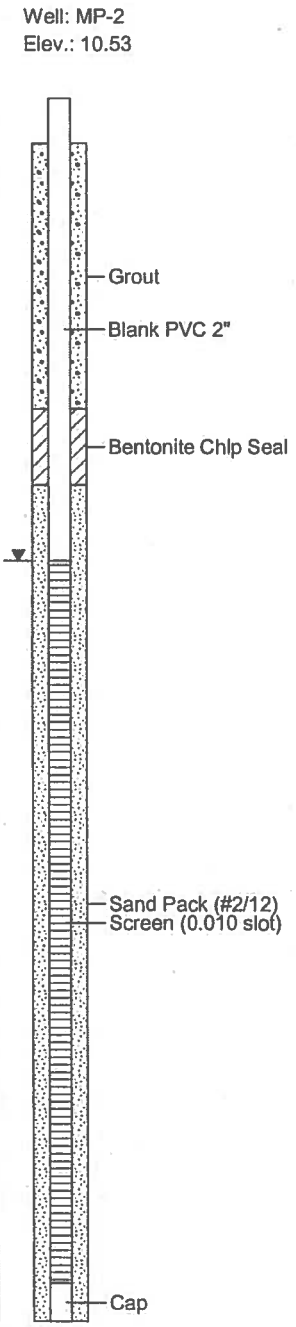
MALCOLM PIRNIE

LOG OF BORING MP-2

Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 01/09/2006	Drilling Company	: Resonant Sonic
Date Completed	: 01/10/2006	Northing Coord.	: 2220352.326`
Hole Diameter	: 8 Inches	Easting Coord.	: 6059580.519
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S.
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Depth in Feet	Ground Surf.Elev 10.87	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery	Blow Count
0	11			0-2.5 ft Hand Augering (HA)			
		FILL		2.5-12.5 ft SANDY CLAYEY SILT with small angular gravel, fine to medium grained sand, dark brown, dry, soft, (5% gravel, 30% sand, 65% fines)	1	12"/18"	4/10/11
				Change color to gray	2	12"/18"	6/6/8
5	6			[Soil analytical sample collected at 5 feet bgs] Wet, presence of gravels from wheathered bedrock with iron oxide specks, size of gravel increases with depth, PID reading of 0 ppm	3	6"/18"	4/7/30
					4	12"/18"	6/8/12
					5	12"/18"	7/9/8
10	1				6	12"/18"	3/4/6
					7	18"/18"	8/3/50
		SH		12.5-13.25 ft WHEATHERED BEDROCK (shale/siltstone)	8	3"	50
15				SAMPLER REFUSAL at 13.5 ft bgs (50 blow counts for 3")			
				Total depth at 15.5 feet bgs			



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MALCOLM PIRNIE

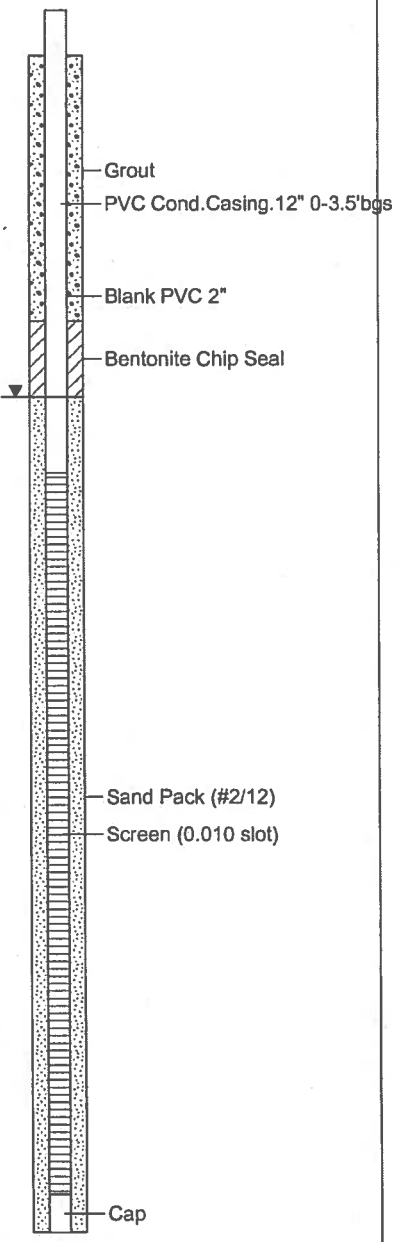
LOG OF BORING MP-3

Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 01/09/2006	Drilling Company	: Resonant Sonic
Date Completed	: 01/10/2006	Northing Coord.	: 2220606.236
Hole Diameter	: 8 Inches	Easting Coord.	: 6059404.374
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Depth in Feet	Ground Surf.Elev 11.93	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery	Blow Count
0	12			0-4.5 ft Hand Augering (HA)			
		FILL		2-10.5 ft SANDY SILT with small angular gravel from wheathered bedrock, medium grained sand, light brown, dry, medium stiff, (5% gravel, 15% sand, 80%fines)	1	HA	
				[Soil analytical sample collected at 4.5 feet bgs]			
5	7			Wet, soft, PID reading of 0 ppm	2	12"/18"	4/8/23
				Increase in gravel content, black, and odor of PAHs, PID reading of 0 ppm	3	12"/18"	35/48/14
				7.5-9 ft - No recovery but presence of wheathered shale In shoe	4	0"/18"	2/4/10
10	2			SANDY SILT with small angular gravel from wheather bedrock, medium grained sand, light brown, very moist, soft, odor of SVOCs, (5% gravel, 15%sand, 80% fines), PID reading of 0 ppm	5	18"/18"	5/10/8
		FILL		10.5-12 ft GRAVEL, small, black, wet, loose, slight odor, (100%gravel)	6	12"/18"	5/6/5
		CL		12-15 ft CLAY (bay mud), gray to dark gray, wet, very soft, plastic, odor of sulfides	7	12"/18"	1/1/2
				Harder and moist	8	18"/18"	4/8/25
15				Total depth at 15.5 feet bgs			

Well: MP-3
Elev.: 11.42



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MALCOLM PIRNIE

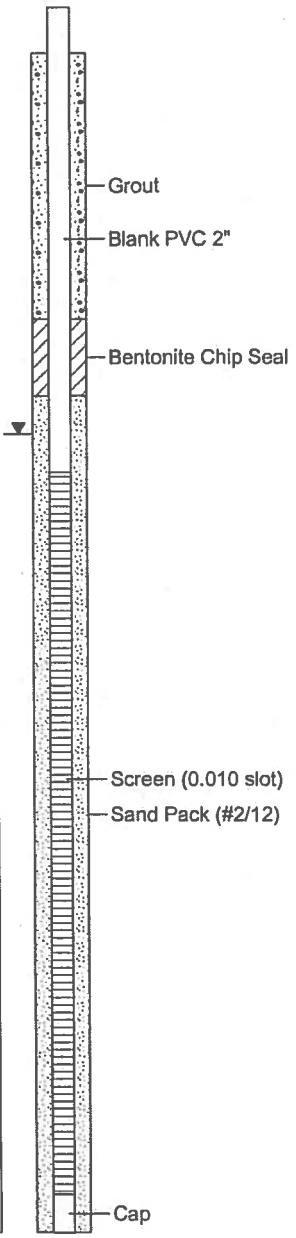
LOG OF BORING MP-4

(Page 1 of 1)

Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 01/07/2006	Drilling Company	: Resonant Sonic
Date Completed	: 01/07/2006	Northing Coord.	: 2220811.37
Hole Diameter	: 8 Inches	Easting Coord.	: 6059316.85
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S.
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Depth in Feet	Ground Surf.Elev 11.27	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery	Blow Count
0	11			0-5 ft Hand Augering (HA)			
5	6	FILL		3-12.5 ft SILTY GRAVEL, small angular gravel, brown to black, wet, loose, (70% gravel, 0%sand, 30% fines), PID reading of 0 ppm [Soil analytical sample collected at 4.5 feet bgs]	1	HA	
					2	12"/18"	4/4/2
					3	12"/18"	2/2/1
					4	12"/18"	2/5/5
10	1				5	12"/18"	2/1/2
				No recovery from 11 to 12.5 feet bgs (Presence of well graded sand, dark, wet, and loose in the shoe)	6	0"/18"	1/1/0
		SH		12.5-12.9 ft WEATHERED BEDROCK (shale/siltstone) SAMPLER REFUSAL at 13 ft bgs (50 blow counts for 5")	7	5"	50
15				Total depth of 15.5 ft bgs			



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MALCOLM PIRNIE

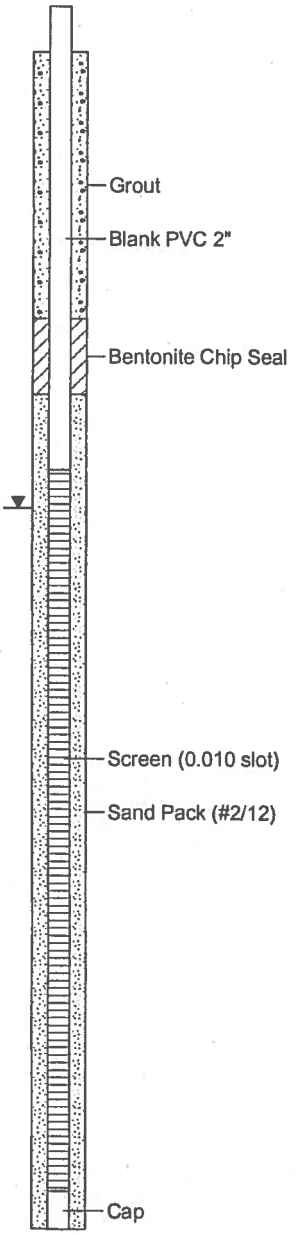
LOG OF BORING MP-5

Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 01/06/2006	Drilling Company	: Resonant Sonic
Date Completed	: 01/07/2006	Northing Coord.	: 2221070.945
Hole Diameter	: 8 inches	Easting Coord.	: 6059437.212
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S.
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Depth in Feet	Ground Surf.Elev 13.29	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery	Blow Count
0	13			0-5 ft Hand Augering (HA)			
		FILL		3-8.5 ft SANDY CLAYEY SILTwith presence of small angular gravel, medium grained sand, brown, dry, loose, moderately plastic, (5% gravel, 25% sand, 70% fines)	1	HA	
				[Soil analytical sample collected at 4.5 feet bgs]			
5	8			Wet, PID reading of 0 ppm	2	18"/18"	3/4/6
					3	6"/18"	3/3/6
				Olive with iron oxide specks, petroleum odor, PID reading of 35 ppm	4	6"	50
				SAMPLER REFUSAL at 8.5 ft bgs (50 blow counts for 6")			
		SH		8.5-10.5 ft WEATHERED BEDROCK (shale/siltstone)			
10	3			SAMPLER REFUSAL at 10.5 ft bgs (50 blow counts for 3")	5	3"	50
15				Total Depth = 15.5 ft bgs			

Well: MP-5
Elev.: 12.79



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MALCOLM PIRNIE

LOG OF BORING MP-6

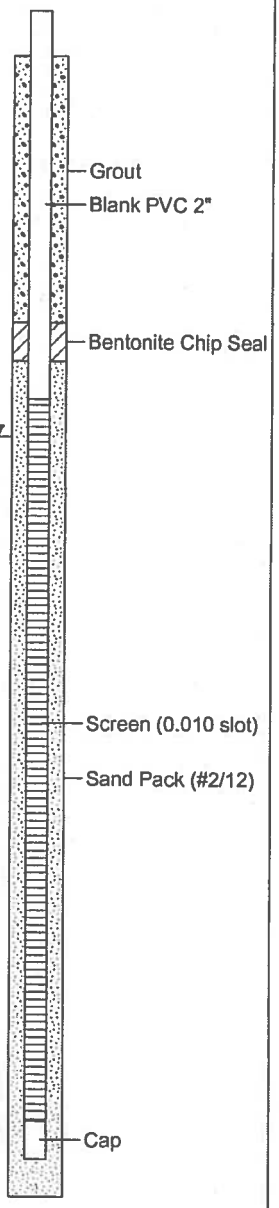
Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 02/03/2006	Drilling Company	: Resonant Sonic
Date Completed	: 02/06/2006	Northing Coord.	: 2220572.693
Hole Diameter	: 8 inches	Easting Coord.	: 6059355.739
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S.
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Ground Surf.Elev 11.46

Depth in Feet	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery	Blow Count
0			0-4 ft Hand Augering (HA)			
5	FILL		4-13.5 ft GRAVELLY CLAYEY SILT, small to medium angular gravel, brown, dry, hard, moderately plastic, (30% gravel, 0% sand, 70% fines), PID reading of 0 ppm	1	18"/24"	21/19/7/8
			[Soil analytical sample collected at 5 feet bgs]			
			Gray, wet, strong petroleum odor, PID reading of 10 ppm			
			[Soil analytical sample collected at 7 feet bgs]	2	12"/24"	4/5/9/11
			PID reading of 40 ppm	3	12"/24"	1/3/5/7
10			PID reading of 11 ppm	4	12"/24"	9/11/13/15
			SANDY SILT, coarse to medium grained sand, gray, wet, soft, no petroleum odor, (0% gravel, 30% sand, 70% fines), PID reading of 0 ppm	5	18"/24"	7/9/11/13
			[Soil analytical sample collected at 13.5 feet bgs]			
			No recovery from 14-15 feet bgs	6	0"/12"	9/13
15			Total depth at 15 feet bgs			

Well: MP-6
Elev.: 11.18



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MALCOLM PIRNIE

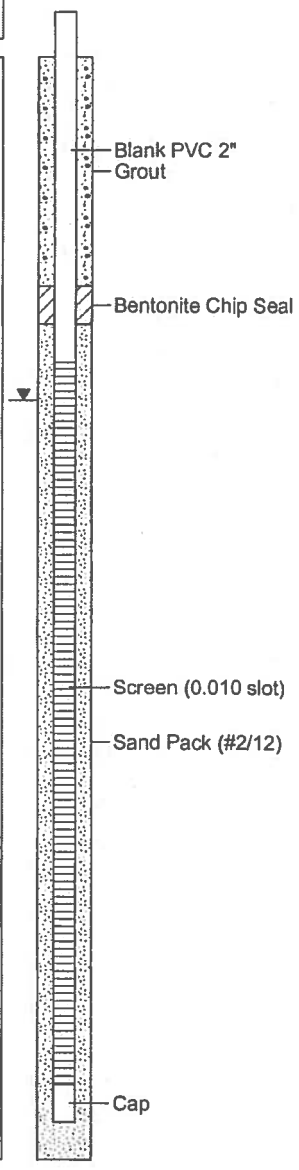
LOG OF BORING MP-7

(Page 1 of 1)

Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 02/03/2006	Drilling Company	: Resonant Sonic
Date Completed	: 02/03/2006	Northing Coord.	: 2220495.108
Hole Diameter	: 8 Inches	Easting Coord.	: 6059199.34
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S.
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Depth in Feet	Ground Surf.Elev 10.40	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery	Blow Count
0	10			0-2 ft Hand Augering (HA)			
		FILL		2-9 ft GRAVELLY CLAYEY SILT, small angular gravel, brown, dry to moist, soft to medium stiff, moderately plastic, (30% gravel, 0% sand, 70% fines) [Soil analytical sample collected at 3.5 feet bgs]	1	24"/24"	NA
5	5			Wet, PID reading of 0 ppm	2	12"/24"	NA
				Chunks of red bricks (up to one inch in size)	3	12"/24"	NA
					4	24"/24"	NA
10	0	CL		9-13 ft CLAY, bay mud, gray to black, wet, very soft, plastic, odor of sulfides, pieces of wood chips	5	24"/24"	NA
				[Soil analytical sample collected at 13 feet bgs]	6	12"/24"	NA
15				Total depth at 14.5 feet bgs NA = Not available			



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MALCOLM PIRNIE

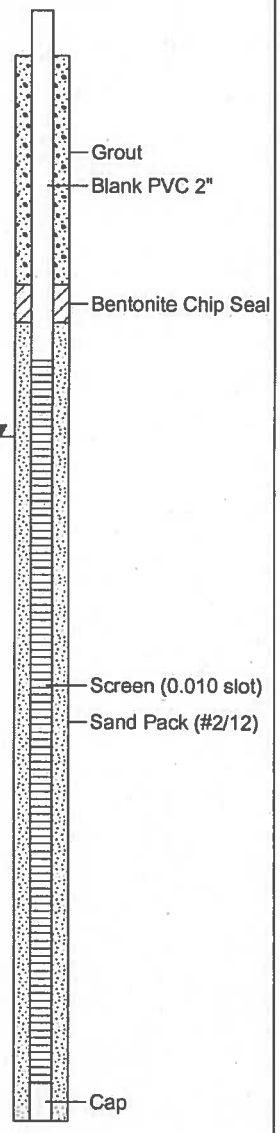
LOG OF BORING MP-8

Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 02/03/2006	Drilling Company	: Resonant Sonic
Date Completed	: 02/03/2006	Northing Coord.	: 2220377.581
Hole Diameter	: 8 Inches	Easting Coord.	: 6059262.625
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S.
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Depth in Feet	Ground Surf.Elev 11.39	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery	Blow Count
0	11			0-2 ft Hand Augering (HA)			
		FILL		2-13.5 ft GRAVELLY CLAYEY SILT, small to medium angular gravel, brown, dry, loose, moderately plastic, (30% gravel, 0% sand, 70% fines), PID reading of 0 ppm	1	6"/24"	19/18/6/7
				[Soil analytical sample collected at 2.5 feet bgs]			
				No recovery from 4-10 feet bgs (sample in shoe is same as above)			
5	6			Wet between 5 and 6 feet bgs	2	0"/24"	8/9/15/16
					3	0"/24"	7/10/12/17
					4	0"/24"	7/9/11/13
10	1			SANDY CLAYEY SILT with small angular gravel, coarse grained sand, gray, wet, soft, (5% gravel, 35% sand, 60% fines), PID reading of 0 ppm	5	18"/24"	11/9/13/18
				GRAVELLY CLAYEY SILT, large to medium angular gravel, gray, wet, loose, moderately plastic, (30% gravel, 0% sand, 70% fines), PID reading of 0 ppm	6	18"/24"	6/10/11/13
				[Soil analytical sample collected at 13.5 feet bgs]			
15				Total depth at 14.5 feet bgs			

Well: MP-8
Elev.: 10.71



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MALCOLM PIRNIE

LOG OF BORING GB-1

Former Flour Mill Facility
800 Derr Street
Vallejo, CA
Project 2626-008

Date Started	: 01/10/2006	Drilling Company	: Resonant Sonic
Date Completed	: 01/10/2006	Northing Coord.	: 2220514.901
Hole Diameter	: 8 Inches	Easting Coord.	: 6059279.239
Drilling Method/Rig	: Hollow-Stem Auger	Survey By	: C.S.S.
Sampling Method	: Split-spoon	Logged By	: Maryline Laugier

Depth in Feet	Ground Surf.Elev 10.37	SOIL TYPE	GRAPHIC	DESCRIPTION	Samples	Recovery
0	10	FILL		0-5 ft Hand Augering SANDY SILT with small angular gravel, medium to fine grained sand		
5	5	FILL		5-7.5 ft SHELBY TUBE SAMPLE Two feet of soil collected in the shelby tube Odor of petroleum hydrocarbons Residual petroleum hydrocarbons	1	
10	0	CL		11-13.5 ft SHELBY TUBE SAMPLE Full shelby tube (2.5 feet of soil in tube) Odor of petroleum hydrocarbons Residual petroleum hydrocarbons	2	
15				Total depth of boring at 13.5 feet bgs		

13.5

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MALCOLM PIRNIE

LOG OF BORING SB-1

General Mills
Vallejo, California

Date Started	: 1/31/2006	Elevation	: Not measured
Date Completed	: 1/31/2006	Northing Coord.	: N 2220518.289
Hole Diameter	: 2 in.	Easting Coord.	: E 6059244.329
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-Core	Logged By	: M. Laugier

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-4.5 ft Brick and Fill	FILL		Surface Conditions - Soil
2	-2	2	12"/24"				
4	-4	3	18"/48"	4.5-8 ft GRAVELLY SILTY SAND, fine to medium grained sand, small angular gravel, brown, dry, loose, (20% gravel, 55% sand, 25%fines) [Soil analytical sample collected at 5 feet bgs] Black staining with TPH odor, wet [Soil analytical sample collected at 5.5 feet bgs]	FILL		Water Table at 5 feet bgs PID Measurement = 11 ppm
8	-8	4	30"/48"	8-9.5 ft CLAY, soft, dark gray, TPH odor, wet, plastic, (100% fines) 3" brick fragment @ 9 feet 9.5-15 ft SANDY GRAVEL, small angular gravel, coarse grained sand, loose, wet, TPH odor, (80% gravel, 20% sand, 0%fines)	FILL		PID Measurement = 3 ppm PID Measurement = 6 ppm
10	-10						
12	-12	5	36"/48"	TPH odor decreases with depth [Soil analytical sample collected at 15 feet bgs]	FILL		PID Measurement = 4 ppm PID Measurement = 6 ppm PID Measurement = 0.5 ppm
14	-14						
16	-16			Bottom of boring at 16 feet bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-2

General Mills
Vallejo, California

Date Started	: 1/31/2006	Elevation	: Not measured
Date Completed	: 1/31/2006	Northing Coord.	: N 2220476.594
Hole Diameter	: 2 in.	Easting Coord.	: E 6059271.569
Drilling Method	: Direct Push	Survey By	: C.S.S
Sampling Method	: Macro-Core	Logged By	: M. Laugier

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0						
		1	HA	0-4.5 ft GRAVELY SANDY SILT , Dry	FILL		Surface Conditions - Soil
2	-2						
4	-4			[Soil analytical sample collected at 4.5 feet bgs]			Water Table at 4.5 feet bgs
		2	30"/48"	4.5-8 ft SANDY SILT, medium grained sand, wet, moderately hard, dark gray, TPH odor, (0%gravel, 20%sand, 80%fines) [Soil analytical sample collected at 6.5 feet bgs]	FILL		PID Measurement = 23 ppm PID Measurement = 60 ppm
6	-6						
8	-8						PID Measurement = 26 ppm
		3	36"/48"	8-13.5 ft GRAVELLY SILT, small angular gravel, moderately hard, gray to dark gray, wet, TPH odor, (20%gravel, 0%sand, 80%fines)	FILL		PID Measurement = 35 ppm PID Measurement = 11 ppm
10	-10						
12	-12						PID Measurement = 10 ppm PID Measurement = 2 ppm
14	-14	4	36"/48"	13.5-15 ft CLAY, Bay Mud, dark gray, Hydrogen Sulfide odor, soft, wet, plastic, (100%fines) [Soil analytical sample collected at 15 feet bgs]	CH		PID Measurement = 0 ppm
16	-16			Bottom of boring at 16 feet bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-3

General Mills
Vallejo, California

Date Started	: 1/31/2006	Elevation	: Not measured
Date Completed	: 1/31/2006	Northing Coord.	: N 2220538.586
Hole Diameter	: 2 In.	Easting Coord.	: E 6059267.108
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-core	Logged By	: M. Laugler

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0			0-4.5 ft SANDY SILT, dry, loose, light brown			Surface Conditions - Soil PID Measurement = 0 ppm
2	-2	1	48"/48"	TPH odor	FILL		PID Measurement = 0 ppm
4	-4			[Soil analytical sample collected at 4.5 feet bgs]			PID Measurement = 0 ppm Water Table at 4.5 feet bgs
				4.5-12 ft CLAY, wet, soft, dark gray to black, TPH odor, plastic, (100%fines)			PID Measurement = 27 ppm
6	-6	2	30"/48"	[Soil analytical sample collected at 5.5 feet bgs]			PID Measurement = 10 ppm
				No recovery from 8-12 feet bgs (Presence of gray clay with TPH odor in shoe)			
8	-8				FILL		
10	-10	3	0"/48"				
12	-12						PID Measurement = 0 ppm
				12-15 ft SANDY GRAVEL, small angular gravle, coarse to medium grained sand, loose, gray to dark gray, wet, TPH odor, (70% gravel, 30% sand, 0% fines)	FILL		
14	-14	4	36"/48"				PID Measurement = 0 ppm
				[Soil analytical sample collected at 15 feet bgs]			
16	-16			Bottom of boring at 16 feet bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-4

General Mills
Vallejo, California

Date Started	: 1/31/2006	Elevation	: Not measured
Date Completed	: 1/31/2006	Northing Coord.	: N 2220494.274
Hole Diameter	: 2 In.	Easting Coord.	: E 6059289.760
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-core	Logged By	: M. Laugier

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0			0-4 ft SANDY SILT, small grained sand, dry, loose, light brown			Surface Conditions - Soil
2	-2	1	HA	TPH odor	FILL		
4	-4			[Soil analytical sample collected at 4.5 feet bgs]			Water Table at 4.5 feet bgs
				4.5-10 ft SANDY SILT, medium grained sand, wet, soft, dark gray to black, TPH odor, (0% gravel, 20% sand, 80% fines)			
6	-6	2	30"/48"	[Soil analytical sample collected at 6 feet bgs]			PID Measurement = 138 ppm
					FILL		
8	-8			GRAVELLY SILT, small angular gravel, wet, soft, dark gray to black, TPH odor			PID Measurement = 20 ppm
10	-10	3	36"/48"	10-13 ft CLAY, Bay Mud, wet, soft, very dark gray to black, TPH odor, plastic, (100% fines)			PID Measurement = 6 ppm
12	-12	4	12"/12"	with trace small angular gravel @ 12 feet bgs	CH		PID Measurement = 5 ppm
				[Soil analytical sample collected at 13 feet bgs]			
				Refusal at 13 ft bgs, wood chips observed Bottom of boring			
14	-14						
16	-16						
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-5

General Mills
Vallejo, California

Date Started	: 1/31/2006	Elevation	: Not Measured
Date Completed	: 1/31/2006	Northing Coord.	: N 2220529.500
Hole Diameter	: 2 In.	Easting Coord.	: E 6059300.367
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macrocore	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0			0-8 ft SANDY SILT, medium grained sand, dry, medium stiff, light brown, (0% gravel, 20% sand, 80% fines)			Surface Conditions - Soil
2	-2	1	24"/48"				PID Measurement = 0 ppm
4	-4				FILL		
				[Soil analytical sample collected at 5.5 feet bgs]			Water Table at 5.5 feet bgs
6	-6	2	30"/48"	gray to dark gray, TPH odor			PID Measurement = 30.8 ppm
				[Soil analytical sample collected at 6.5 feet bgs]			
8	-8			8-15.5 ft CLAY (Bay Mud), wet, very soft, gray to dark gray, TPH odor, plastic, (100% fines)			
10	-10	3	36"/48"	dark gray only			
12	-12				CH		PID Measurement = 2.4 ppm
14	-14	4	42"/48"				PID Measurement = 0.1 ppm
							PID Measurement = 0 ppm
				[Soil analytical sample collected at 15.5 feet bgs]			
16	-16			(SANDY GRAVEL, wet, black with TPH odor in shoe)			
				Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-6

General Mills
Vallejo, California

Date Started	: 1/31/2006	Elevation	: Not measured
Date Completed	: 1/31/2006	Northing Coord.	: N 2220459.224
Hole Diameter	: 2 in.	Easting Coord.	: E 6059253.454
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-core	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0			0-13 ft SANDY SILT, medium grained sand, dry, brown, medium stiff, (0% gravel, 20% sand, 80%fines)			Surface Conditions - Soil
2	-2	1	HA				
4	-4			[Soil analytical sample collected at 4.5 feet bgs] wet to very moist, light brown, soft			Water Table at 4.5 feet bgs
6	-6	2	30"/48"	color change to gray, TPH odor, trace medium size to small angular gravel [Soil analytical sample collected at 6 feet bgs]	FILL		PID Measurement = 70.8 ppm
8	-8			with small angular gravel, (5% gravel, 15% sand, 80% fines)			PID Measurement = 40 ppm
10	-10	3	36"/48"				PID Measurement = 20 ppm
12	-12						
14	-14	4	42"/48"	13-14.5 ft SILTY GRAVEL, small angular gravel, medium grained sand, wet, light brown and gray, TPH odor, (80% gravel, 20% sand, 0%fines) [Soil analytical sample collected at 14.5 feet bgs]	FILL		PID Measurement = 5.1 ppm
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-7

General Mills
Vallejo, California

Date Started	: 1/31/2006	Elevation	: Not measured
Date Completed	: 1/31/2006	Northing Coord.	: N 2220468.590
Hole Diameter	: 2 in.	Easting Coord.	: E 6059225.222
Drilling Method	: Direct Push	Survey By	: C.S.S
Sampling Method	: Macro-core	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0			0-13 ft			
		1	HA	SANDY SILT, medium grained sand. light brown, dry to moist, moderately stiff to soft, (0% gravel, 20% sand, 80% fines)			Surface Conditions - Soil
2	-2						PID Measurement = 0 ppm
		2	18"/24"	[Soil analytical sample collected at 3.5 feet bgs]			
4	-4			with small brick fragments and small angular gravel, gray, TPH odor			Water Table at 4 feet bgs PID Measurement = 0 ppm PID Measurement = 30 ppm
6	-6	3	24"/48"	[Soil analytical sample collected at 6 feet bgs]	FILL		
8	-8			with small angular gravel, soft, minor TPH odor			PID Measurement = 2.6 ppm
10	-10	4	18"/48"				
12	-12						PID Measurement = 0.5 ppm
				13-15 ft			PID Measurement = 0 ppm
14	-14	5	36"/48"	CLAY, Bay Mud, wet, very soft, dark gray to black, plastic, no TPH odor, slight hydrogen sulfide odor	CH		
				[Soil analytical sample collected at 15 feet bgs]			
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-8

General Mills
Vallejo, California

Date Started	: 1/31/2006	Elevation	: Not measured
Date Completed	: 1/31/2006	Northing Coord.	: N 2220501.159
Hole Diameter	: 2 In.	Easting Coord.	: E 6059226 312
Drilling Method	: Direct Push	Survey By	: C.S.C
Sampling Method	: Macro-core	Logged By	: M. Laugier

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0			0-4.5 ft SAND and BRICK fragments			Surface Conditions - Soil
2	-2	1	HA		FILL		
4	-4			wet, TPH odor			Water Table @ 4 ft bgs
				4.5-8 ft SILT/CLAY with small angular gravel and medium grained sand, wet, very soft, dark gray to blak, TPH odor, moderately plastic, (5% gravel, 5% sand, 90% fines)			PID Measurement = 0 ppm
6	-6	2	24"/48"	[Soil analytical sample collected at 6 feet bgs]	FILL		
8	-8						PID Measurement = 0 ppm
				8-12 ft SANDY GRAVEL with CLAY, small angular gravel, medium grained sand, wet, very loose, TPH odor with sheen, (70% gravel, 20%sand, 10% fines)			
10	-10	3	18"/48"		FILL		
12	-12						PID Measurement = 0 ppm
				12-16 ft CLAY with trace small angular gravel, trace sand, wet, black, slight TPH odor, very soft, plastic, (100% fines)			
14	-14	4	48"/48"		CH		PID Measurement = 0 ppm
16	-16			[Soil analytical sample collected at 16 feet bgs]			
				Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-9

General Mills
Vallejo, California

Date Started	: 2/1/2006	Elevation	: Not measured
Date Completed	: 2/1/2006	Northing Coord.	: N 2220532.837
Hole Diameter	: 2 in.	Easting Coord.	: E 6059234.148
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual tubes	Logged By	: M. Laugier

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA		FILL		Surface Conditions - Soil
2	-2	2	12"/24"	2- 9.5 ft GRAVELY SILT, small to medium coarse angular gravel, dry, loose, medium stiffness, brown, (30% gravel, 0% sand, 70%fines)			PID Measurement = 0 ppm
4	-4	3	6"/48"	[Soil analytical sample collected at 4 feet bgs] Wet, color change to reddish brown, wood chips with TPH odor in bottom of sampler			Water Table @ 4 ft bgs PID Measurement = 0 ppm
8	-8	4	18"/48"	GRAVELY SANDY SILT, fine gravel, fine to medium coarse sand, wet, loose/soft, fragments of wood and bricks, no TPH odor, (25%gravel, 15% sand, 60% fines) [Soil analytical sample collected at 9.5 feet bgs]			PID Measurement = 0 ppm
10	-10						
12	-12			Bottom of boring at 12 ft bgs			
14	-14						
16	-16						
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-10

General Mills
Vallejo, California

Date Started	: 2/1/2006	Elevation	: Not Measured
Date Completed	: 2/1/2006	Northing Coord.	: N 2220455.388
Hole Diameter	: 2 in.	Easting Coord.	: E 6059285.316
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-core	Logged By	: M. Laugler

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-15.5 ft GRAVELLY SILT	FILL		Surface Conditions - Asphalt
2	-2	2	12"/24"	GRAVELLY SILT with fine sand, small angular diameter gravel, dry, loose, brown, (20% gravel, 5% sand, 75% fines)			PID Measurement = 0 ppm
4	-4	3	24"/48"	Wet, with smaller gravel, with clay, brown TPH odor begins at 4 feet bgs [Soil Analytical Sample collected at 4.5 feet bgs]			Water Table @ 4.5 ft bgs PID Measurement = 6 ppm
6	-6			Gray with TPH odor			PID Measurement = 20 ppm
8	-8	4	36"/48"	Strong TPH odor			PID Measurement = 40 ppm
10	-10						PID Measurement = 20 ppm
12	-12	5	42"/48"	Strong TPH odor and residual TPH in soil [Soil Analytical Sample collected at 13 feet bgs]			PID Measurement = 120 ppm
14	-14			[Soil Analytical Sample collected at 15.5 feet bgs]			PID Measurement = 120 ppm
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-11

General Mills
Vallejo, California

Date Started	: 2/1/2006	Elevation	: Not Measured
Date Completed	: 2/1/2006	Northing Coord.	: N 2220572.922
Hole Diameter	: 2 in.	Easting Coord.	: E 6059268.581
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-5 ft GRAVELLY SILT	FILL		Surface Conditions - Soil
2	-2	2	24"/24"	GRAVELLY SILT (small angular gravel), dry to moist, loose, medium stiffness, brown, graded to brownish gray with depth, (30% gravel, 0% sand, 70% fines)			PID Measurement = 0 ppm
4	-4	3	12"/18"	Wet, TPH odor, gray [Soil Analytical Sample collected at 4 feet bgs] Wood chips with TPH odor and oily sheen in bottom of sampler, refusal at 5.5 feet bgs [Soil Analytical Sample collected at 5 feet bgs]			PID Measurement = 0 ppm Water Table @ 4 ft bgs
6	-6			Bottom of boring at 5.5 ft bgs			
8	-8						
10	-10						
12	-12						
14	-14						
16	-16						
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-12

General Mills
Vallejo, California

Date Started	: 2/1/2006	Elevation	: Not Measured
Date Completed	: 2/1/2006	Northing Coord.	: N 2220492.998
Hole Diameter	: 2 in.	Easting Coord.	: E 6059328.082
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-core	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-15.5 ft GRAVELLY SILT	FILL		Surface Conditions - Asphalt
2	-2			GRAVELLY SILT, small to medium angular gravel, dry to moist, loose, brown, (30% gravel, 0% sand, 70% fines)			
		2	18"/24"	[Soil Analytical Sample collected at 3.5 feet bgs]			PID Measurement = 3 ppm
4	-4			CLAYEY SILT with small gravel, very moist, brown with gray spots, moderately stiff, TPH odor, (10% gravel, 0% sand, 90% fines)			Water Table @ 4.5 ft bgs PID Measurement = 12 ppm
				Gray with strong TPH odor			
6	-6	3	48"/48"				PID Measurement = 74 ppm
8	-8			GRAVELLY SILT, small to medium angular gravel, wet, soft, strong TPH odor, (40% gravel, 0% sand, 60% fines)			PID Measurement = 74 ppm
10	-10	4	36"/48"	residual TPH observed			
12	-12			with fine angular gravel Strong TPH odor and residual TPH in soil [Soil Analytical Sample collected at 13 feet bgs]			PID Measurement = 100 ppm
14	-14	5	42"/48"				PID Measurement = 15 ppm
				[Soil Analytical Sample collected at 15.5 feet bgs]			
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-13

General Mills
Vallejo, California

Date Started	: 2/1/2006	Elevation	: Not Measured
Date Completed	: 2/1/2006	Northing Coord.	: N 2220543.505
Hole Diameter	: 2 in.	Easting Coord.	: E 6059320.515
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-core	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0						
		1	HA	0-4.5 ft GRAVELLY SILT	FILL		Surface Conditions - Soil
2	-2	2	12"/24"	GRAVELLY SILT, small angular gravel, dry, loose, brown, (30% gravel, 0% sand, 70% fines)			PID Measurement = 8 ppm
4	-4						Water Table @ 4.5 ft bgs
		3	30"/48"	4.5-8 ft SILTY SAND with gravel, coarse sand, small angular gravel, wet, loose, reddish brown, TPH odor, residual TPH product, (5% gravel, 80% sand, 15% fines) [Soil Analytical Sample collected at 4.5 feet bgs] Color change to gray			PID Measurement = 9 ppm PID Measurement = 80 ppm
8	-8			[Soil Analytical Sample collected at 6.5 feet bgs]	FILL		PID Measurement = 32 ppm
		4	18"/48"	8-8.5 ft SANDY SILTY GRAVEL, coarse sand, coarse angular gravel, wet, loose, strong TPH odor, (80% gravel, 10% sand, 10% fines) 8.5-12 ft CLAY, dark gray, wet, very soft, TPH odor, wood chips in base of sampler, (100% fines)	FILL		
12	-12						PID Measurement = 20 ppm
		5	48"/48"	12-13 ft GRAVELLY CLAY with sand, small angular gravel, coarse sand, wet, very soft, gray, TPH odor, wood chips, (25% gravel, 5% sand, 70% fines) 13-16 ft CLAY, (Bay Mud), wet, very soft, dark gray, TPH odor, (100% fines) [Soil Analytical Sample collected at 16 feet bgs]	FILL CH		PID Measurement = 20 ppm
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-14

General Mills
Vallejo, California

Date Started	: 2/1/2006	Elevation	: Not Measured
Date Completed	: 2/1/2006	Northing Coord.	: N 2220423.252
Hole Diameter	: 2 in.	Easting Coord	: E 6059255.984
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-core	Logged By	: M. Laugler

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-8.5 ft GRAVELLY SILT			Surface Conditions - Asphalt
2	-2	2	18"/24"	GRAVELLY SILT, small angular gravel, dry, loose, brown, (25% gravel, 0% sand, 75% fines)			PID Measurement = 0 ppm
4	-4	3	18"/48"	GRAVELLY SILT with sand, fine angular gravel, fine- to medium-sand, wet, reddish, soft, slight TPH odor, (25% gravel, 10% sand, 65% fines) [Soil Analytical Sample collected at 5 feet bgs]	FILL		PID Measurement = 1 ppm Water Table @ 5 ft bgs
6	-6						
8	-8	4	36"/48"	8.5-10.5 ft CLAY, wet, very soft, dark gray, TPH odor, (100% fines)	FILL		PID Measurement = 2.6 ppm
10	-10			10.5-13 ft GRAVEL, wet, loose, TPH odor, gray, (60% gravel, 0% sand, 40% fines) Residual TPH product observed between 10.5-11 ft [Soil Analytical Sample collected at 11 feet bgs]	FILL		PID Measurement = 71 ppm PID Measurement = 36 ppm
12	-12	5	36"/48"	13-15 ft GRAVELLY SILT, small angular gravel, coarse sand, wet, medium stiffness, TPH odor, (30% gravel, 0% sand, 70% fines) [Soil Analytical Sample collected at 15 feet bgs]	FILL		PID Measurement = 20 ppm PID Measurement = 6.5 ppm
14	-14						
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-15

General Mills
Vallejo, California

Date Started	: 2/1/2006	Elevation	: Not Measured
Date Completed	: 2/1/2006	Northing Coord.	: N 2220453.362
Hole Diameter	: 2 in.	Easting Coord.	: E 6059209.631
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Macro-core	Logged By	: M. Laugler

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-5.5 ft SILT with GRAVEL and SAND, fine angular gravel, brown, dry, medium stiffness, (5% gravel, 10% sand, 85% fines)	FILL		Surface Conditions - Soil
2	-2	2	24"/24"				PID Measurement = 0 ppm
4	-4						PID Measurement = 0 ppm
							Water Table at 5 feet bgs
				5 to 5.5 ft GRAVEL with silt, wet, brown, (95% gravel, 0% sand, 5% fines) [Soil Analytical Sample collected at 5 feet bgs]	FILL		
6	-6	3	30"/48"	5.5-7 ft SILT with gravel, small angular gravel, gray, medium stiffness to soft, slight TPH odor, (5% gravel, 0% sand, 95% fines) [Soil Analytical Sample collected at 6.5 feet bgs]	FILL		PID Measurement = 13 ppm
8	-8			7-8.5 feet SILT GRAVEL, medium gravel, wet, loose, black, very soft, no TPH odor, (80% gravel, 0% sand, 20% fines)	FILL		
10	-10	4	24"/48"	8.5-10 ft GRAVELLY CLAY, fine angular gravel, wet, black, very soft, no TPH odor, (20% gravel, 0% sand, 80% fines) [Soil Analytical Sample collected at 10 feet bgs]	FILL		PID Measurement = 0 ppm
12	-12			Bottom of boring at 12 ft bgs			
14	-14						
16	-16						
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-16

General Mills
Vallejo, California

Date Started	: 2/1/2008	Elevation	: Not Measured
Date Completed	: 2/1/2006	Northing Coord.	: N 2220497.515
Hole Diameter	: 2 In.	Easting Coord.	: E 6059200.605
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-4.5 ft GRAVELLY SILT	FILL		Surface Conditions - Soil
2	-2	2	6"/24"	GRAVELLY SILT, small angular gravel, brown, moist to very moist, soft, (30% gravel, 0% sand, 70% fines) [Soil Analytical Sample collected at 2.5 feet bgs]			PID Measurement = 0 ppm Water Table at 2.5 feet bgs
4	-4						PID Measurement = 0 ppm
6	-6	3	24"/48"	4.5-10.5 ft CLAY, (Bay Mud), black, wet, very soft, hydrogen sulfide odor, (100% fines)	CH		
8	-8						PID Measurement = 0 ppm
10	-10	4	30"/48"	[Soil Analytical Sample collected at 10.5 feet bgs]			PID Measurement = 0 ppm
12	-12			Bottom of boring at 12 ft bgs			
14	-14						
16	-16						
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-17

General Mills
Vallejo, California

Date Started	: 2/2/2006	Elevation	: Not Measured
Date Completed	: 2/2/2006	Northing Coord.	: N 2220413.284
Hole Diameter	: 2 in.	Easting Coord.	: E 6059312.384
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-12.5 ft GRAVELLY CLAYEY SILT	FILL		Surface Conditions - Asphalt
2	-2	2	12"/24"	GRAVELLY CLAYEY SILT, small angular gravel, light brown, dry, stiff, (20% gravel, 0% sand, 80% fines)			PID Measurement = 0 ppm
4	-4			Wet [Soil Analytical Sample collected at 4.5 feet bgs]			Water Table @ 4.5 ft bgs PID Measurement = 0 ppm
6	-6	3	24"/48"	Color change to gray			
8	-8						PID Measurement = 0 ppm
10	-10	4	30"/48"	GRAVELLY SILT with sand, small angular gravel, medium sand, gray to light gray, wet, loose, (20% gravel, 20% sand, 60% fines) [Soil Analytical Sample collected at 10 feet bgs]			
12	-12						PID Measurement = 0 ppm
				12.5-14.5 ft CLAY (Bay Mud), dark gray to black, very soft, wet, (100% fines)	CH		
14	-14	5	30"/48"	[Soil Analytical Sample collected at 14.5 feet bgs]			PID Measurement = 0 ppm
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-18

General Mills
Vallejo, California

Date Started	: 2/2/2006	Elevation	: Not Measured
Date Completed	: 2/2/2006	Northing Coord.	: N 2220482.132
Hole Diameter	: 2 in.	Easting Coord.	: E 6059379.958
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-8 ft GRAVELLY SILT	FILL		Surface Conditions - Asphalt
2	-2	2	24"/24"	GRAVELLY SILT, small angular gravel, light brown, dry, loose, (30% gravel, 0% sand, 70% fines)			PID Measurement = 0 ppm
4	-4	3	24"/48"	[Soil Analytical Sample collected at 4.5 feet bgs]			Water Table at 4.5 feet bgs PID Measurement = 0 ppm
6	-6						
8	-8	4	24"/48"	8-9 ft, SILTY GRAVEL, small rounded gravel, black, wet, loose, very slight unknown odor, (80% gravel, 0% sand, 20% fines) [Soil Analytical Sample collected at 9 feet bgs]	FILL		PID Measurement = 0 ppm
				9-9.5 ft, SILT with trace rounded gravel, wet, gray	FILL		
10	-10			9.5 to 10 ft CLAY, (Bay Mud), gray, wet, soft, hydrogen sulfide odor, (100% fines) [Soil Analytical Sample collected at 10 feet bgs]	CH		
12	-12			Bottom of boring at 12 ft bgs			
14	-14						
16	-16						
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-19

General Mills
Vallejo, California

Date Started	: 2/2/2006	Elevation	: Not Measured
Date Completed	: 2/2/2006	Northing Coord.	: N 2220575.403
Hole Diameter	: 2 in.	Easting Coord.	: E 6059359.213
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-8 ft GRAVELLY SILT	FILL		Surface Conditions - Asphalt
2	-2	2	18"/24"	GRAVELLY SILT, small angular gravel, light brown, dry, loose, (30% gravel, 0% sand, 70% fines)			PID Measurement = 0 ppm
4	-4			with CLAY and slightly less gravel, wet, color change to gray, TPH odor, (10% gravel, 0% sand, 90% fines) [Soil analytical sample collected at 4.5 feet bgs]			Water Table at 4.5 feet bgs PID Measurement = 5 ppm PID Measurement = 70 ppm
6	-6	3	24"/48"	[Soil analytical sample collected at 6 feet bgs]			
8	-8	4	18"/48"	8-12 ft SILTY GRAVEL with sand, fine angular gravel, black, wet, loose, very slight unknown odor, (55% gravel, 5% sand, 40% fines)	FILL		PID Measurement = 40 ppm
12	-12	5	12"/48"	12-16 ft GRAVELLY SANDY SILT, medium to fine gravel, medium to coarse sand, wet, gray, soft, TPH odor, (15% gravel, 15% sand, 70% fines)	FILL		PID Measurement = 20 ppm
16	-16	6	3"/48"	16-20.5 ft Medium gravel with wood fragments, TPH odor	FILL		PID Measurement = 7 ppm
20	-20	7	6"/6"	[Soil analytical sample collected at 20.5 feet bgs]			
22				Bottom of Boring at 20.5 ft Refusal at 20.5 ft			

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MALCOLM PIRNIE

LOG OF BORING SB-20

General Mills
Vallejo, Callfornia

Date Started	: 2/2/2006	Elevation	: Not Measured
Date Completed	: 2/2/2006	Northing Coord.	: N 2220567.091
Hole Diameter	: 2 in.	Easting Coord.	: E 6059280.744
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth In Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-8 ft GRAVELLY SILT	FILL		Surface Conditions - Asphalt
2	-2	2	24"/24"	GRAVELLY CLAYEY SILT, small angular gravel, light brown, dry to moist, medium stiff to loose, slight PAH odor, (20% gravel, 0% sand, 80% fines) color change to Gray/Light Gray [Soil analytical sample collected at 4 feet bgs]			PID Measurement = 0 ppm
4	-4						Water Table at 4.5 feet bgs
6	-6	3	18"/48"	Wet, less gravel, strong PAH odor, (10% gravel, 0% sand, 90% fines) [Soil analytical sample collected at 5.5 feet bgs]			PID Measurement = 0 ppm
8	-8			8-9 ft CLAY, (Bay Mud), gray, soft, slight PAH odor [Soil analytical sample collected at 9 feet bgs]	CH		PID Measurement = 0 ppm
10	-10	4	12"/48"				
12	-12						
14	-14	5	0"/48"				
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-21

General Mills
Vallejo, California

Date Started	: 2/2/2006	Elevation	: Not Measured
Date Completed	: 2/2/2006	Northing Coord.	: N 2220377.247
Hole Diameter	: 2 in.	Easting Coord.	: E 6059278.071
Drilling Method	: Direct Push	Survey By	: C.S.S
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-14 feet GRAVELLY SILT	FILL		Surface Conditions - Asphalt
2	-2	2	24"/24"	GRAVELLY SILT, small angular gravel, light brown, dry, loose, (30% gravel, 0% sand, 70% fines)			PID Measurement = 0 ppm
4	-4			wet, with sand, less gravel, (15% gravel, 15% sand, 70% fines) [Soil analytical sample collected at 4 feet bgs]			PID Measurement = 0 ppm Water Table at 4 feet bgs
6	-6	3	12"/48"				
8	-8			with clay, (40% gravel, 0% sand, 60% fines)			PID Measurement = 0 ppm
10	-10	4	12"/48"				
12	-12			very fine gravel, wet, very soft, black to dark gray, (10% gravel, 0% sand, 90% fines)			PID Measurement = 0 ppm
14	-14	5	36"/48"	14-15 ft CLAY, (Bay Mud), dark gray, wet, very soft, (100% fines) [Soil analytical sample collected at 15 feet bgs]	CH		
16	-16			Bottom of boring at 16 ft bgs			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-22

General Mills
Vallejo, California

Date Started	: 2/2/2006	Elevation	: Not Measured
Date Completed	: 2/2/2006	Northing Coord.	: N 6059247.595
Hole Diameter	: 2 in.	Easting Coord.	: E 6059278.071
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-9 feet GRAVELLY SILT			Surface Conditions - Asphalt
2	-2	2	0"/24"	GRAVELLY SILT, small- to medium- angular gravel, brown, dry, loose, (30% gravel, 0% sand, 70% fines)			
4	-4			[Soil analytical sample collected at 4.5 feet bgs]	FILL		PID Measurement = 0 ppm
6	-6	3	12"/48"				Water Table at 6 feet bgs
8	-8			medium- to coarse-gravel with clay, brown and gray lenses with TPH odor, wet, soft, (45% gravel, 0% sand, 65% fines)			PID Measurement = 7 ppm
10	-10	4	18"/48"	9-9.5 ft GRAVEL, medium gravel, wet, residual product, (100% gravel) [Soil analytical sample collected at 9.5 feet bgs]	FILL		
12	-12			9-12 feet GRAVELLY SILT, medium- to coarse-gravel, wet, (45% gravel, 0% sand, 65% fines)	FILL		PID Measurement = 0 ppm
14	-14	5	24"/42"	12-14 ft SILTY GRAVEL, medium- to coarse- gravel, wet, loose, very slight TPH odor, (80% gravel, 0% sand, 20% fines) [Soil analytical sample collected at 14 feet bgs] Large gravel in bottom of sampler	FILL		
16	-16			Bottom of boring at 15.5 ft bgs, REFUSAL			
18	-18						
20							

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MALCOLM PIRNIE

LOG OF BORING SB-23

General Mills
Vallejo, California

Date Started	: 2/2/2006	Elevation	: Not Measured
Date Completed	: 2/2/2006	Northing Coord.	: N 2220434.596
Hole Diameter	: 2 in.	Easting Coord.	: E 6059189.238
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugier

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-6 feet GRAVELLY SILT	FILL		Surface Conditions - Asphalt
2	-2	2	0"/24"	rock in bottom of sampler at 4 ft			
4	-4	3	12"/48"	4.5-7 feet GRAVEL, coarse gravel, wet, loose, (100% gravel) [Soil analytical sample collected at 4.5 feet bgs]	FILL		PID Measurement = 0 ppm Water Table at 4.5 feet bgs
6	-6						
8	-8	4	24"/24"	7-10 feet GRAVELLY SILT GRAVELLY SILT, small to medium gravel, gray, slight TPH odor, very soft, wet, (30%, gravel, 0% sand, 70% fines) No odor, dry [Soil analytical sample collected at 10 feet bgs]	FILL		PID Measurement = 0.7 ppm
10	-10			Bottom of boring at 10 ft bgs, REFUSAL			
12	-12						
14	-14						
16	-16						
18	-18						
20							

02-23-2006 P:\2626008\reports\Boring Logs\SB_23.bor

MALCOLM PIRNIE

LOG OF BORING SB-24

General Mills
Vallejo, California

Date Started	: 2/2/2006	Elevation	: Not Measured
Date Completed	: 2/2/2006	Northing Coord.	: N 2220577.304
Hole Diameter	: 2 in.	Easting Coord.	: E 6059235.721
Drilling Method	: Direct Push	Survey By	: C.S.S.
Sampling Method	: Dual Tube	Logged By	: M. Laugler

Depth in Feet	Surf. Elev. NM	Coring Interval	Recov.	DESCRIPTION	USCS	GRAPHIC	REMARKS
0	0	1	HA	0-4.5 feet SILT with trace gravel, dry to moist, brown, hard, (100% fines)	FILL		Surface Conditions - Soil
2	-2	2	12"/24"				PID Measurement = 0 ppm
4	-4	3	12"/48"	4.5-8 feet GRAVELLY SILT with coarse SAND, fine angular gravel, wet, loose, gray, slight odor of PAH, (30%, gravel, 5% sand, 65% fines) [Soil analytical sample collected at 4.5 feet bgs]	FILL		PID Measurement = 0 ppm Water Table at 4.5 feet bgs
6	-6						
8	-8	4	24"/48"	8-10 ft CLAY (Bay Mud), possible slight odor of PAH or Hydrogen Sulfide, (100% fines) [Soil analytical sample collected at 10 feet bgs]	CH		PID Measurement = 0 ppm
10	-10						
12	-12			Bottom of boring at 12 ft bgs			
14	-14						
16	-16						
18	-18						
20							

02-23-2006 P:\26261008\reports\Boring Logs\SB_24.bor

APPENDIX F

Soil Analytical Laboratory Reports (Preliminary Investigation)

ANALYTICAL REPORT

Job Number: 720-1375-1

Job Description: General Mills

For:

Malcolm Pirnie, Inc.
2000 Powell St, Suite 1180
Emeryville, CA 94608

Attention: Ms. Maryline Laugier

Afsaneh Salimpour
Project Manager I
asalimpour@stl-inc.com
01/24/2006

METHOD SUMMARY

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	STL-SF	SW846 8270C	
Ultrasonic Extraction	STL-SF		SW846 3550B
Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	STL-SF	SW846 8015B	
Closed System Purge & Trap/Laboratory	STL-SF		SW846 5035
Aromatic and Halogenated VOCs by Gas Chromatography using PID or ECD	STL-SF	SW846 8021B	
Closed System Purge & Trap/Laboratory	STL-SF		SW846 5035
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Ultrasonic Extraction	STL-SF		SW846 3550B

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Method	Analyst	Analyst ID
SW846 8270C	Zhao, June	JZ
SW846 8015B	Sakaki, Liz	LS
SW846 8021B	Sakaki, Liz	LS
SW846 8015B	Ho, Sonia	SO

SAMPLE SUMMARY

Client: Malcolm Pirnie, Inc.

Job Number: 720-1375-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-1375-1	MP-5-5	Solid	01/06/2006 1445	01/09/2006 1730
720-1375-2	MP-4-5	Solid	01/07/2006 0830	01/09/2006 1730

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Client Sample ID: **MP-5-5**

Lab Sample ID: 720-1375-1
Client Matrix: Solid

Date Sampled: 01/06/2006 1445
Date Received: 01/09/2006 1730

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/12/2006 1545
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\720-
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Naphthalene		ND		0.067
Acenaphthylene		ND		0.067
Acenaphthene		ND		0.067
Fluorene		ND		0.067
Phenanthrene		ND		0.067
Anthracene		ND		0.067
Fluoranthene		ND		0.067
Pyrene		ND		0.067
Benzo[a]anthracene		ND		0.067
Chrysene		ND		0.067
Benzo[b]fluoranthene		ND		0.067
Benzo[k]fluoranthene		ND		0.067
Benzo[a]pyrene		ND		0.067
Indeno[1,2,3-cd]pyrene		ND		0.067
Benzo[g,h,i]perylene		ND		0.067
2-Methylnaphthalene		ND		0.067
Dibenz(a,h)anthracene		ND		0.67

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	71	23 - 120
2-Fluorobiphenyl	72	30 - 115
Terphenyl-d14	80	18 - 137

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Client Sample ID: **MP-4-5**

Lab Sample ID: 720-1375-2
Client Matrix: Solid

Date Sampled: 01/07/2006 0830
Date Received: 01/09/2006 1730

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/12/2006 1613
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\720-
Initial Weight/Volume: 30.31 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Naphthalene		ND		0.066
Acenaphthylene		ND		0.066
Acenaphthene		ND		0.066
Fluorene		ND		0.066
Phenanthrene		ND		0.066
Anthracene		ND		0.066
Fluoranthene		ND		0.066
Pyrene		ND		0.066
Benzo[a]anthracene		ND		0.066
Chrysene		ND		0.066
Benzo[b]fluoranthene		ND		0.066
Benzo[k]fluoranthene		ND		0.066
Benzo[a]pyrene		ND		0.066
Indeno[1,2,3-cd]pyrene		ND		0.066
Benzo[g,h,i]perylene		ND		0.066
2-Methylnaphthalene		ND		0.066
Dibenz(a,h)anthracene		ND		0.66

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	71	23 - 120
2-Fluorobiphenyl	72	30 - 115
Terphenyl-d14	70	18 - 137

Client: Malcolm Pirnie, Inc.

Job Number: 720-1375-1

Client Sample ID: **MP-5-5**

Lab Sample ID: 720-1375-1
Client Matrix: Solid

Date Sampled: 01/06/2006 1445
Date Received: 01/09/2006 1730

8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Method: 8015B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1335
Date Prepared: 01/20/2006 1331

Analysis Batch: 720-4667
Prep Batch: 720-4664

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 2.46 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		ND		8.3

Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	56	*	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Client Sample ID: **MP-4-5**

Lab Sample ID: 720-1375-2
Client Matrix: Solid

Date Sampled: 01/07/2006 0830
Date Received: 01/09/2006 1730

8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Method: 8015B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1335
Date Prepared: 01/20/2006 1331

Analysis Batch: 720-4667
Prep Batch: 720-4664

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 2.50 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		ND		8.0

Surrogate	%Rec		Acceptance Limits
4-Bromofluorobenzene	8	*	58 - 124

Client: Malcolm Pirnie, Inc.

Job Number: 720-1375-1

Client Sample ID: **MP-5-5**

Lab Sample ID: 720-1375-1
Client Matrix: Solid

Date Sampled: 01/06/2006 1445
Date Received: 01/09/2006 1730

8021B Aromatic and Halogenated VOCs by Gas Chromatography using PID or ECD

Method: 8021B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 2.46 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.041
Toluene		ND		0.041
Ethylbenzene		ND		0.041
Xylenes, Total		ND		0.041

Surrogate	%Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	76	58 - 124
4-Bromofluorobenzene	64	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Client Sample ID: **MP-4-5**

Lab Sample ID: 720-1375-2
Client Matrix: Solid

Date Sampled: 01/07/2006 0830
Date Received: 01/09/2006 1730

8021B Aromatic and Halogenated VOCs by Gas Chromatography using PID or ECD

Method: 8021B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 2.5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.040
Toluene		ND		0.040
Ethylbenzene		ND		0.040
Xylenes, Total		ND		0.040

Surrogate	%Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	75	58 - 124
4-Bromofluorobenzene	82	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Client Sample ID: **MP-5-5**

Lab Sample ID: 720-1375-1
Client Matrix: Solid

Date Sampled: 01/06/2006 1445
Date Received: 01/09/2006 1730

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/12/2006 1322
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.30 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		5.1		0.99
Motor Oil Range Organics [C24-C36]		63		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	86	60 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Client Sample ID: **MP-4-5**

Lab Sample ID: 720-1375-2
Client Matrix: Solid

Date Sampled: 01/07/2006 0830
Date Received: 01/09/2006 1730

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/11/2006 2028
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.27 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	68	60 - 130

DATA REPORTING QUALIFIERS

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Lab Section	Qualifier	Description
GC VOA		
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits

Client: Malcolm Pirnie, Inc.

Job Number: 720-1375-1

Method Blank - Batch: 720-4156

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 720-4156/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/12/2006 1423
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156
Units: mg/Kg

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\mb
Initial Weight/Volume: 30.11 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
Naphthalene	ND		0.067
Acenaphthylene	ND		0.067
Acenaphthene	ND		0.067
Fluorene	ND		0.067
Phenanthrene	ND		0.067
Anthracene	ND		0.067
Fluoranthene	ND		0.067
Pyrene	ND		0.067
Benzo[a]anthracene	ND		0.067
Chrysene	ND		0.067
Benzo[b]fluoranthene	ND		0.067
Benzo[k]fluoranthene	ND		0.067
Benzo[a]pyrene	ND		0.067
Indeno[1,2,3-cd]pyrene	ND		0.067
Benzo[g,h,i]perylene	ND		0.067
2-Methylnaphthalene	ND		0.067
Dibenz(a,h)anthracene	ND		0.67

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	73	23 - 120
2-Fluorobiphenyl	80	30 - 115
Terphenyl-d14	76	18 - 137

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4156

Method: 8270C
Preparation: 3550B

LCS Lab Sample ID: LCS 720-4156/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/12/2006 1449
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156
Units: mg/Kg

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\LC
Initial Weight/Volume: 30.36 g
Final Weight/Volume: 1 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-4156/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/12/2006 1517
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156
Units: mg/Kg

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\LCS
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Naphthalene	80	85	21 - 133	7	35		
Acenaphthylene	94	94	33 - 145	0	35		
Acenaphthene	81	82	47 - 145	2	35		
Fluorene	88	91	59 - 121	3	35		
Phenanthrene	105	102	10 - 130	2	35		
Anthracene	97	94	27 - 133	2	35		
Fluoranthene	98	96	26 - 137	1	35		
Pyrene	112	109	52 - 115	2	35		
Benzo[a]anthracene	93	100	33 - 143	8	35		
Chrysene	112	110	17 - 168	1	35		
Benzo[b]fluoranthene	114	123	24 - 159	8	35		
Benzo[k]fluoranthene	112	92	11 - 162	19	35		
Benzo[a]pyrene	111	108	17 - 163	2	35		
Indeno[1,2,3-cd]pyrene	114	110	9 - 171	3	35		
Benzo[g,h,i]perylene	119	111	9 - 219	7	35		
2-Methylnaphthalene	91	94	10 - 130	4	35		
Dibenz(a,h)anthracene	122	118	10 - 130	3	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	75	76	23 - 120
2-Fluorobiphenyl	82	74	30 - 115
Terphenyl-d14	83	95	18 - 137

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Method Blank - Batch: 720-4664

Method: 8015B
Preparation: 5035

Lab Sample ID: MB 720-4664/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1335
Date Prepared: 01/20/2006 1331

Analysis Batch: 720-4667
Prep Batch: 720-4664
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C6-C10	ND		2.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	80	58 - 124

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4664

Method: 8015B
Preparation: 5035

LCS Lab Sample ID: LCS 720-4664/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1335
Date Prepared: 01/20/2006 1331

Analysis Batch: 720-4667
Prep Batch: 720-4664
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-4664/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1335
Date Prepared: 01/20/2006 1331

Analysis Batch: 720-4667
Prep Batch: 720-4664
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C10	112	107	75 - 125	5	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	95	92	58 - 124

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Method Blank - Batch: 720-4660 **Method: 8021B**
Preparation: 5035

Lab Sample ID: MB 720-4660/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Benzene	ND		0.010
Toluene	ND		0.010
Ethylbenzene	ND		0.010
Xylenes, Total	ND		0.010

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	100	58 - 124
4-Bromofluorobenzene	91	58 - 124

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4660 **Method: 8021B**
Preparation: 5035

LCS Lab Sample ID: LCS 720-4660/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-4660/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	91	93	77 - 123	2	35		
Toluene	96	99	78 - 122	3	35		
Ethylbenzene	97	99	70 - 130	2	35		
Xylenes, Total	96	98	75 - 125	3	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	101	101	58 - 124
4-Bromofluorobenzene	94	94	58 - 124

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Method Blank - Batch: 720-4155

Method: 8015B
Preparation: 3550B

Lab Sample ID: MB 720-4155/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/11/2006 1428
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155
Units: mg/Kg

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.22 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	69	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4155

Method: 8015B
Preparation: 3550B

LCS Lab Sample ID: LCS 720-4155/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/11/2006 1333
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155
Units: mg/Kg

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-4155/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/11/2006 1401
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155
Units: mg/Kg

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.27 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	71	76	60 - 130	6	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	75	75	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton, CA 94566-4756
Phone: (925) 484-1919 Fax: (925) 484-1096
Email: sfloqn@stl-inc.com

720-1376

Reference #: 300066

Date 01/07/06 Page 1 of 1

Report To

Attn: MARYLINE LAUGIER
Company: MALCOLM PIRNIE
Address:
Phone: Email:
Bill To: Sampled By:
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	Fuel Tests EPA 8260B ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664)	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☒ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Low Level Metals by EPA 200.8/6020 (ICP-MS)	W E T (STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond ☐ Alkalinity TSS ☐ TDS ☐	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	VOCs by 8020 (EDF only)		Number of Containers
MP-5-5	1/6/06	1445	Soil	—			X							X									X		4
MP-4-5	1/7/06	830	Soil	—			X							X									X		4

Project Info.

Project Name:
Project#:
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 2°
Conforms to record:

TAT: (5 Day) 72h 48h 24h Other:

Report ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ State Tank Fund EDF
Special Instructions / Comments ☐ Global ID

EDF will be given later

*STL SF reports 8015M from C_8-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: 1220 Time	Signature: 1730 Time	Signature: Time
Printed Name: MARYLINE LAUGIER 1/7/06 Date	Printed Name: 1/9/06 Date	Printed Name: Date
Company: MALCOLM PIRNIE	Company: STL SF	Company:

1) Received by	2) Received by	3) Received by
Signature: 1220 Time	Signature: 1730 Time	Signature: Time
Printed Name: 1/9/06 Date	Printed Name: M. VILLANUEVA 01/09/06 Date	Printed Name: Date
Company: STL SF	Company: STL SF	Company:

Rev 05/04

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Malcolm Pirnie, Inc. Job Number: 720-1375-1

Login Number: 1375

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

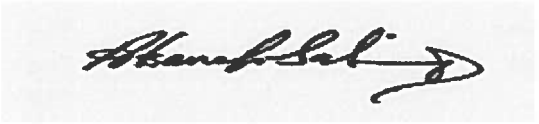
Job Number: 720-1376-1

Job Description: Generial Mills

For:

Malcolm Pirnie, Inc.
2000 Powell St, Suite 1180
Emeryville, CA 94608

Attention: Ms. Maryline Laugier



Afsaneh Salimpour
Project Manager I
asalimpour@stl-inc.com
01/24/2006

METHOD SUMMARY

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	STL-SF	SW846 8270C	
Ultrasonic Extraction	STL-SF		SW846 3550B
Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)	STL-SF	SW846 8015B	
Closed System Purge & Trap/Laboratory	STL-SF		SW846 5035
Aromatic and Halogenated VOCs by Gas Chromatography using PID or ECD	STL-SF	SW846 8021B	
Closed System Purge & Trap/Laboratory	STL-SF		SW846 5035
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Ultrasonic Extraction	STL-SF		SW846 3550B

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Method	Analyst	Analyst ID
SW846 8270C	Zhao, June	JZ
SW846 8015B	Sakaki, Liz	LS
SW846 8021B	Sakaki, Liz	LS
SW846 8015B	Ho, Sonia	SO

SAMPLE SUMMARY

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-1376-1	MP-2-5	Solid	01/09/2006 1420	01/10/2006 1305
720-1376-2	MP-3-4.5	Solid	01/09/2006 1615	01/10/2006 1305
720-1376-3	MP-1-4.5	Solid	01/09/2006 1635	01/10/2006 1305

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-2-5**

Lab Sample ID: 720-1376-1
Client Matrix: Solid

Date Sampled: 01/09/2006 1420
Date Received: 01/10/2006 1305

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/12/2006 1642
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\720-
Initial Weight/Volume: 30.13 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Naphthalene		ND		0.067
Acenaphthylene		ND		0.067
Acenaphthene		ND		0.067
Fluorene		ND		0.067
Phenanthrene		ND		0.067
Anthracene		ND		0.067
Fluoranthene		ND		0.067
Pyrene		ND		0.067
Benzo[a]anthracene		ND		0.067
Chrysene		ND		0.067
Benzo[b]fluoranthene		ND		0.067
Benzo[k]fluoranthene		ND		0.067
Benzo[a]pyrene		ND		0.067
Indeno[1,2,3-cd]pyrene		ND		0.067
Benzo[g,h,i]perylene		ND		0.067
2-Methylnaphthalene		ND		0.067
Dibenz(a,h)anthracene		ND		0.67

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	67	23 - 120
2-Fluorobiphenyl	81	30 - 115
Terphenyl-d14	83	18 - 137

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-3-4.5**

Lab Sample ID: 720-1376-2
Client Matrix: Solid

Date Sampled: 01/09/2006 1615
Date Received: 01/10/2006 1305

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/12/2006 1709
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\720-
Initial Weight/Volume: 30.23 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Naphthalene		ND		0.066
Acenaphthylene		ND		0.066
Acenaphthene		ND		0.066
Fluorene		ND		0.066
Phenanthrene		0.14		0.066
Anthracene		ND		0.066
Fluoranthene		0.13		0.066
Pyrene		0.15		0.066
Benzo[a]anthracene		ND		0.066
Chrysene		0.077		0.066
Benzo[b]fluoranthene		0.11		0.066
Benzo[k]fluoranthene		ND		0.066
Benzo[a]pyrene		0.12		0.066
Indeno[1,2,3-cd]pyrene		0.082		0.066
Benzo[g,h,i]perylene		0.074		0.066
2-Methylnaphthalene		ND		0.066
Dibenz(a,h)anthracene		ND		0.66

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	81	23 - 120
2-Fluorobiphenyl	83	30 - 115
Terphenyl-d14	78	18 - 137

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-1-4.5**

Lab Sample ID: 720-1376-3
Client Matrix: Solid

Date Sampled: 01/09/2006 1635
Date Received: 01/10/2006 1305

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/12/2006 1736
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\720-
Initial Weight/Volume: 30.15 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Naphthalene		ND		0.067
Acenaphthylene		ND		0.067
Acenaphthene		ND		0.067
Fluorene		ND		0.067
Phenanthrene		ND		0.067
Anthracene		ND		0.067
Fluoranthene		ND		0.067
Pyrene		ND		0.067
Benzo[a]anthracene		ND		0.067
Chrysene		ND		0.067
Benzo[b]fluoranthene		ND		0.067
Benzo[k]fluoranthene		ND		0.067
Benzo[a]pyrene		ND		0.067
Indeno[1,2,3-cd]pyrene		ND		0.067
Benzo[g,h,i]perylene		ND		0.067
2-Methylnaphthalene		ND		0.067
Dibenz(a,h)anthracene		ND		0.67

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	79	23 - 120
2-Fluorobiphenyl	79	30 - 115
Terphenyl-d14	76	18 - 137

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-2-5**

Lab Sample ID: 720-1376-1
Client Matrix: Solid

Date Sampled: 01/09/2006 1420
Date Received: 01/10/2006 1305

8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Method: 8015B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1335
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4667
Prep Batch: 720-4660

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-3-4.5**

Lab Sample ID: 720-1376-2
Client Matrix: Solid

Date Sampled: 01/09/2006 1615
Date Received: 01/10/2006 1305

8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Method: 8015B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1335
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4667
Prep Batch: 720-4660

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	59	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-1-4.5**

Lab Sample ID: 720-1376-3
Client Matrix: Solid

Date Sampled: 01/09/2006 1635
Date Received: 01/10/2006 1305

8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)

Method: 8015B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1335
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4667
Prep Batch: 720-4660

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10		ND		1.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	64	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-2-5**

Lab Sample ID: 720-1376-1
Client Matrix: Solid

Date Sampled: 01/09/2006 1420
Date Received: 01/10/2006 1305

8021B Aromatic and Halogenated VOCs by Gas Chromatography using PID or ECD

Method: 8021B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0050
Toluene		ND		0.0050
Ethylbenzene		ND		0.0050
Xylenes, Total		ND		0.0050

Surrogate	%Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	81	58 - 124
4-Bromofluorobenzene	84	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-3-4.5**

Lab Sample ID: 720-1376-2
Client Matrix: Solid

Date Sampled: 01/09/2006 1615
Date Received: 01/10/2006 1305

8021B Aromatic and Halogenated VOCs by Gas Chromatography using PID or ECD

Method: 8021B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0051
Toluene		ND		0.0051
Ethylbenzene		ND		0.0051
Xylenes, Total		ND		0.0051

Surrogate	%Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	75	58 - 124
4-Bromofluorobenzene	60	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-1-4.5**

Lab Sample ID: 720-1376-3
Client Matrix: Solid

Date Sampled: 01/09/2006 1635
Date Received: 01/10/2006 1305

8021B Aromatic and Halogenated VOCs by Gas Chromatography using PID or ECD

Method: 8021B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Benzene		ND		0.0051
Toluene		ND		0.0051
Ethylbenzene		ND		0.0051
Xylenes, Total		ND		0.0051

Surrogate	%Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	84	58 - 124
4-Bromofluorobenzene	70	58 - 124

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-2-5**

Lab Sample ID: 720-1376-1
Client Matrix: Solid

Date Sampled: 01/09/2006 1420
Date Received: 01/10/2006 1305

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/11/2006 2246
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.40 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	69	60 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-3-4.5**

Lab Sample ID: 720-1376-2
Client Matrix: Solid

Date Sampled: 01/09/2006 1615
Date Received: 01/10/2006 1305

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/11/2006 2341
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.6		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	72	60 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Client Sample ID: **MP-1-4.5**

Lab Sample ID: 720-1376-3
Client Matrix: Solid

Date Sampled: 01/09/2006 1635
Date Received: 01/10/2006 1305

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/12/2006 1158
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.33 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		4.4		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	86	60 - 130

DATA REPORTING QUALIFIERS

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits

Client: Malcolm Pirnie, Inc.

Job Number: 720-1376-1

Method Blank - Batch: 720-4156

Method: 8270C
Preparation: 3550B

Lab Sample ID: MB 720-4156/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/12/2006 1423
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156
Units: mg/Kg

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\mb
Initial Weight/Volume: 30.11 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
Naphthalene	ND		0.067
Acenaphthylene	ND		0.067
Acenaphthene	ND		0.067
Fluorene	ND		0.067
Phenanthrene	ND		0.067
Anthracene	ND		0.067
Fluoranthene	ND		0.067
Pyrene	ND		0.067
Benzo[a]anthracene	ND		0.067
Chrysene	ND		0.067
Benzo[b]fluoranthene	ND		0.067
Benzo[k]fluoranthene	ND		0.067
Benzo[a]pyrene	ND		0.067
Indeno[1,2,3-cd]pyrene	ND		0.067
Benzo[g,h,i]perylene	ND		0.067
2-Methylnaphthalene	ND		0.067
Dibenz(a,h)anthracene	ND		0.67

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	73	23 - 120
2-Fluorobiphenyl	80	30 - 115
Terphenyl-d14	76	18 - 137

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4156

Method: 8270C
Preparation: 3550B

LCS Lab Sample ID: LCS 720-4156/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/12/2006 1449
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156
Units: mg/Kg

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\LC
Initial Weight/Volume: 30.36 g
Final Weight/Volume: 1 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-4156/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/12/2006 1517
Date Prepared: 01/11/2006 0608

Analysis Batch: 720-4391
Prep Batch: 720-4156
Units: mg/Kg

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011206\LCS
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Naphthalene	80	85	21 - 133	7	35		
Acenaphthylene	94	94	33 - 145	0	35		
Acenaphthene	81	82	47 - 145	2	35		
Fluorene	88	91	59 - 121	3	35		
Phenanthrene	105	102	10 - 130	2	35		
Anthracene	97	94	27 - 133	2	35		
Fluoranthene	98	96	26 - 137	1	35		
Pyrene	112	109	52 - 115	2	35		
Benzo[a]anthracene	93	100	33 - 143	8	35		
Chrysene	112	110	17 - 168	1	35		
Benzo[b]fluoranthene	114	123	24 - 159	8	35		
Benzo[k]fluoranthene	112	92	11 - 162	19	35		
Benzo[a]pyrene	111	108	17 - 163	2	35		
Indeno[1,2,3-cd]pyrene	114	110	9 - 171	3	35		
Benzo[g,h,i]perylene	119	111	9 - 219	7	35		
2-Methylnaphthalene	91	94	10 - 130	4	35		
Dibenz(a,h)anthracene	122	118	10 - 130	3	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	75	76	23 - 120
2-Fluorobiphenyl	82	74	30 - 115
Terphenyl-d14	83	95	18 - 137

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc.

Job Number: 720-1376-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-4156

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	720-1376-3	Analysis Batch: 720-4391	Instrument ID: Sat 2K1
Client Matrix:	Solid	Prep Batch: 720-4156	Lab File ID: d:\data\200601\011206\7
Dilution:	1.0		Initial Weight/Volume: 30.19 g
Date Analyzed:	01/12/2006 1926		Final Weight/Volume: 1 mL
Date Prepared:	01/11/2006 0608		Injection Volume:

MSD Lab Sample ID:	720-1376-3	Analysis Batch: 720-4391	Instrument ID: Sat 2K1
Client Matrix:	Solid	Prep Batch: 720-4156	Lab File ID: d:\data\200601\011206\72(
Dilution:	1.0		Initial Weight/Volume: 30.23 g
Date Analyzed:	01/12/2006 1954		Final Weight/Volume: 1 mL
Date Prepared:	01/11/2006 0608		Injection Volume:

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Naphthalene	85	79	21 - 133	7	35		
Acenaphthylene	97	100	33 - 145	3	35		
Acenaphthene	83	84	47 - 145	0	35		
Fluorene	81	100	59 - 121	21	35		
Phenanthrene	99	96	10 - 130	3	35		
Anthracene	86	97	27 - 133	12	35		
Fluoranthene	91	97	26 - 137	7	35		
Pyrene	114	119	52 - 115	4	35		*
Benzo[a]anthracene	99	93	33 - 143	7	35		
Chrysene	109	111	17 - 168	2	35		
Benzo[b]fluoranthene	106	123	24 - 159	15	35		
Benzo[k]fluoranthene	106	94	11 - 162	13	35		
Benzo[a]pyrene	112	114	17 - 163	1	35		
Indeno[1,2,3-cd]pyrene	109	112	9 - 171	3	35		
Benzo[g,h,i]perylene	115	119	9 - 219	3	35		
2-Methylnaphthalene	97	93	10 - 130	5	35		
Dibenz(a,h)anthracene	115	116	10 - 130	1	35		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	81	76	23 - 120
2-Fluorobiphenyl	81	82	30 - 115
Terphenyl-d14	91	87	18 - 137

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc.

Job Number: 720-1376-1

Method Blank - Batch: 720-4660

Method: 8021B
Preparation: 5035

Lab Sample ID: MB 720-4660/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Benzene	ND		0.010
Toluene	ND		0.010
Ethylbenzene	ND		0.010
Xylenes, Total	ND		0.010

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	100	58 - 124
4-Bromofluorobenzene	91	58 - 124

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4660

Method: 8021B
Preparation: 5035

LCS Lab Sample ID: LCS 720-4660/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-4660/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/20/2006 1314
Date Prepared: 01/20/2006 1301

Analysis Batch: 720-4661
Prep Batch: 720-4660
Units: mg/Kg

Instrument ID: GC 5
Lab File ID: N/A
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	91	93	77 - 123	2	35		
Toluene	96	99	78 - 122	3	35		
Ethylbenzene	97	99	70 - 130	2	35		
Xylenes, Total	96	98	75 - 125	3	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene (pid)	101	101	58 - 124
4-Bromofluorobenzene	94	94	58 - 124

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Method Blank - Batch: 720-4155

Method: 8015B
Preparation: 3550B

Lab Sample ID: MB 720-4155/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/11/2006 1428
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155
Units: mg/Kg

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.22 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	69	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4155

Method: 8015B
Preparation: 3550B

LCS Lab Sample ID: LCS 720-4155/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/11/2006 1333
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155
Units: mg/Kg

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.12 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-4155/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/11/2006 1401
Date Prepared: 01/11/2006 0531

Analysis Batch: 720-4252
Prep Batch: 720-4155
Units: mg/Kg

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 30.27 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

		% Rec.					
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	71	76	60 - 130	6	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	75	75	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT STL

STL San Francisco Chain of Custody

1220 Quarry Lane Pleasanton CA 94566

Phone: (925) 484-1919 Fax: (925) 600-5160

Email: sflogin@stl-inc.com

720-1376

Reference #: 300080

Date 01/09/06 Page 1 of 1

Report To

Attn: MARYLINE LAUGIER

Company: MALCOLM PIRNIE

Address:

Phone: Email:

Bill To: Sampled By:

Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☐ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☐ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	Fuel Tests EPA 8260B ☐ Gas ☐ BTEX ☐ Fuel Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664)	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☒ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	Low Level Metals by EPA 200.8/6020 (ICP-MS)	☐ WET (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	VOCs (8020)			Number of Containers
MP-2-5	01/9/06	1420	soil	~~X~~			X							X									X			4
MP-3-4.5	"	1615	"	"			X							X									X			
MP-1-4.5	"	1635	"	"			X							X									X			

Project Info.

Project Name: General Mills

Project#:

PO#:

Credit Card#:

Sample Receipt

of Containers:

Head Space:

Temp: 2°

Conforms to record

TAT: (5 Day) 72h 48h 24h Other

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☒ State Tank Fund EDF

Special Instructions / Comments: ☒ Global ID ↓ will be given Lab

*STL SF reports 8015M from C_9-C_{24} (industry norm) Default for 8015B is C_{10}-C_{28}

1) Relinquished by	2) Relinquished by	3) Relinquished by
Signature: [signature] Time: 5:30p	Signature: [signature] Time: 15:05	Signature: Time:
Printed Name: MARYLINE LAUGIER Date: 1/9/06	Printed Name: [signature] Date: 1/10/06	Printed Name: Date:
Company: MALCOLM PIRNIE	Company: STL SF	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1145	Signature: [signature] Time: 1305	Signature: Time:
Printed Name: [signature] Date: 1/10/06	Printed Name: M. VILLANUEVA Date: 01/10/06	Printed Name: Date:
Company: STL SF	Company: STL SF	Company:

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Malcolm Pirnie, Inc. Job Number: 720-1376-1

Login Number: 1376

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX G

Surveying Data

CSS ENVIRONMENTAL SERVICES, INC
100 Galli Drive, Suite 1
Novato, CA 94949
(415) 883-6203
fax (415) 883-6204

Site Positions

6352 800 Derr St., Vallejo CA

Horizontal Coordinate System: North American 1983-CONUS **Date:** 10/13/05
Height System: NAVD88 - Ortho. Ht. (GPS - GEOID99)
Project file: 6352 Wells.spr
Please note TBM1 elevation is GPS derived, others by differential leveling
Desired Horizontal Accuracy: 0.100Ft + 1ppm
Desired Vertical Accuracy: 0.100Ft + 2ppm
Confidence Level: 95% Err.
Linear Units of Measure: Int. Feet
Date of Survey: 1/13/06

	Site ID	Site Descriptor		Position	95% Error	Fix Status	Position Status
1	MP-1	N RIM THIS IS TBM-1	Lat.	38° 04′ 48.80751″ N	0.023		Adjusted
			Lon.	122° 14′ 44.42273″ W	0.028		
		NR Elevation	Elv.	10.37	0.050		
		TOC Elevation	Elv.	9.72			
2	MP-2	NR THIS IS TBM-2	Lat.	38° 04′ 47.51128″ N	0.024		Adjusted
			Lon.	122° 14′ 40.18517″ W	0.029		
		NR Elevation	Elv.	10.87			
		TOC Elevation	Elv.	10.53			
3	MP-3	NR Well Loc	Lat.	38° 04′ 49.98857″ N	0.023		Adjusted
			Lon.	122° 14′ 42.44706″ W	0.029		
		NR Elevation	Elv.	11.93			
		TOC Elevation	Elv.	11.23			
4	MP-4	NR (North Rim) OF WELL LOC	Lat.	38° 04′ 52.00006″ N	0.024		Adjusted
			Lon.	122° 14′ 43.58940″ W	0.029		
		NR Elevation	Elv.	11.27			
		TOC Elevation	Elv.	10.64			
5	MP-5	NR Well Loc	Lat.	38° 04′ 54.58799″ N	0.023		Adjusted
			Lon.	122° 14′ 42.14479″ W	0.029		
		NR Elevation	Elv.	13.29			
		TOC Elevation	Elv.	12.79			
6	GB-1	BOREHOLE LOC	Lat.	38° 04′ 49.06288″ N	0.030		Adjusted
			Lon.	122° 14′ 43.99015″ W	0.035		
7	9563	JT9563 HPGN	Lat.	38° 01′ 48.78742″ N	0.000	Fixed	Adjusted
		Reference Monument	Lon.	122° 15′ 16.40456″ W	0.000	Fixed	
			Elv.	183.000	0.000	Fixed	
8	9617	JT9617 HPGN-D	Lat.	38° 09′ 17.24406″ N	0.000	Fixed	Adjusted
		Reference Monument	Lon.	122° 15′ 12.45092″ W	0.000	Fixed	
			Elv.	33.100	0.000	Fixed	

REGISTERED PROFESSIONAL ENG. AARON N. STESSMAN, P.E. No. C058444 Exp. 12-31-07 CIVIL

CSS ENVIRONMENTAL SERVICES, INC.
100 Galli Drive, Suite 1
Novato, CA 94949
Telephone: (415) 883-6203
Facsimile: (415) 883-6204

Geo_XY.txt

T0609557699	MP-1	MW	01/13/2006	38.0802243	-122.2456730	STAT NAD83
0.8	CSS Environmental Services			APM This is TBM-1, stamped on N Rim of well box. Control from JT9563, JT9617.		
T0609557699	MP-2	MW	01/13/2006	38.0798642	-122.2444959	STAT NAD83
0.8	CSS Environmental Services			APM This is TBM-2, stamped on N Rim of well box.		
T0609557699	MP-3	MW	01/13/2006	38.0805524	-122.2451242	STAT NAD83
0.8	CSS Environmental Services			APM		
T0609557699	MP-4	MW	01/13/2006	38.0811111	-122.2454415	STAT NAD83
0.8	CSS Environmental Services			APM		
T0609557699	MP-5	MW	01/13/2006	38.0818300	-122.2450402	STAT NAD83
0.8	CSS Environmental Services			APM		
T0609557699	MP-6	MW	02/08/2006	38.0804578	-122.2452910	STAT NAD83
0.8	CSS Environmental Services			APM		
T0609557699	MP-7	MW	02/06/2006	38.0802368	-122.2458292	STAT NAD83
0.8	CSS Environmental Services			APM		
T0609557699	MP-8	MW	02/06/2006	38.0799173	-122.2456018	STAT NAD83
0.8	CSS Environmental Services			APM		
T0609557699	GB-1	BH	01/13/2006	38.0802952	-122.2455528	STAT NAD83
0.8	CSS Environmental Services			APM Boring Location		
T0609557699	SB-1	BH	02/06/2006	38.0803027	-122.2456744	STAT NAD83
0.8	CSS Environmental Services			APM Boring Location		
T0609557699	SB-2	BH	02/06/2006	38.0801896	-122.2455771	STAT NAD83
0.8	CSS Environmental Services			APM Boring Location		
T0609557699	SB-3	BH	02/06/2006	38.0803596	-122.2455966	STAT NAD83
0.8	CSS Environmental Services			APM Boring Location		
T0609557699	SB-4	BH	02/06/2006	38.0802391	-122.2455151	STAT NAD83
0.8	CSS Environmental Services			APM Boring Location		
T0609557699	SB-5	BH	02/06/2006	38.0803364	-122.2454805	STAT NAD83
0.8	CSS Environmental Services			APM Boring Location		
T0609557699	SB-6	BH	02/06/2006	38.0801410	-122.2456389	STAT NAD83
0.8	CSS Environmental Services			APM Boring Location		

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T0609557699 0.8	SB-7 BH 02/06/2006 CSS Environmental Services	38.0801653 APM	-122.2457376 Boring Location	STAT	NAD83
T0609557699 0.8	SB-8 BH 02/06/2006 CSS Environmental Services	38.0802548 APM	-122.2457359 Boring Location	STAT	NAD83
T0609557699 0.8	SB-9 BH 02/06/2006 CSS Environmental Services	38.0803421 APM	-122.2457107 Boring Location	STAT	NAD83
T0609557699 0.8	SB-10 BH 02/06/2006 CSS Environmental Services	38.0801321 APM	-122.2455280 Boring Location	STAT	NAD83
T0609557699 0.8	SB-11 BH 02/06/2006 CSS Environmental Services	38.0804540 APM	-122.2455937 Boring Location	STAT	NAD83
T0609557699 0.8	SB-12 BH 02/06/2006 CSS Environmental Services	38.0802376 APM	-122.2453819 Boring Location	STAT	NAD83
T0609557699 0.8	SB-13 BH 02/06/2006 CSS Environmental Services	38.0803758 APM	-122.2454114 Boring Location	STAT	NAD83
T0609557699 0.8	SB-14 BH 02/06/2006 CSS Environmental Services	38.0800424 APM	-122.2456278 Boring Location	STAT	NAD83
T0609557699 0.8	SB-15 BH 02/06/2006 CSS Environmental Services	38.0801227 APM	-122.2457907 Boring Location	STAT	NAD83
T0609557699 0.8	SB-16 BH 02/06/2006 CSS Environmental Services	38.0802434 APM	-122.2458250 Boring Location	STAT	NAD83
T0609557699 0.8	SB-17 BH 02/06/2006 CSS Environmental Services	38.0800179 APM	-122.2454312 Boring Location	STAT	NAD83
T0609557699 0.8	SB-18 BH 02/06/2006 CSS Environmental Services	38.0802104 APM	-122.2452010 Boring Location	STAT	NAD83
T0609557699 0.8	SB-19 BH 02/06/2006 CSS Environmental Services	38.0804654 APM	-122.2452791 Boring Location	STAT	NAD83
T0609557699 0.8	SB-20 BH 02/06/2006 CSS Environmental Services	38.0804386 APM	-122.2455511 Boring Location	STAT	NAD83
T0609557699 0.8	SB-21 BH 02/06/2006 CSS Environmental Services	38.0799172 APM	-122.2455481 Boring Location	STAT	NAD83
T0609557699 0.8	SB-22 BH 02/06/2006 CSS Environmental Services	38.0799165 APM	-122.2456540 Boring Location	STAT	NAD83

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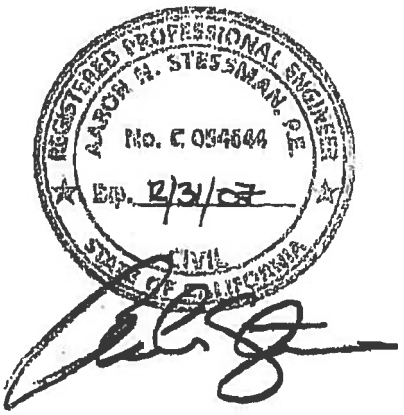
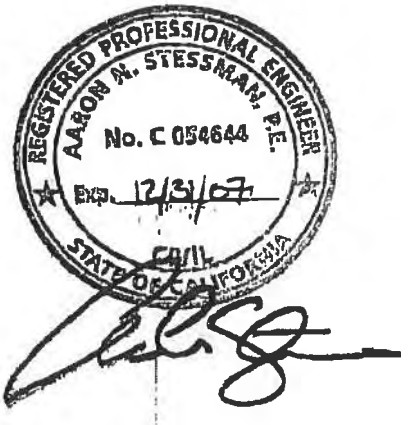
T0609557699	SB-23 BH	02/06/2006	38.0800701	-122.2458604	STAT	NAD83
0.8	CSS Environmental Services		APM Boring Location			
T0609557699	SB-24 BH	02/06/2006	38.0804643	-122.2457081	STAT	NAD83
0.8	CSS Environmental Services		APM Boring Location			



CSS ENVIRONMENTAL SERVICES, INC.
100 Galli Drive, Suite 1
Novato, CA 94949
Telephone: (415) 883-6203
Facsimile: (415) 883-6204

Geo_Z.txt

T0609557699	MP-1	01/13/2006	9.72	DIG	88	1.8	CSS Environmental
Services	This is TBM-1, stamped on N Rim of well box. TBM-1 Elevation is 10.37						
T0609557699	MP-2	01/13/2006	10.53	DIG	88	1.8	CSS Environmental
Services	This is TBM-2, stamped on N Rim of well box. TBM-2 Elevation is 10.87						
T0609557699	MP-3	01/13/2006	11.42	DIG	88	1.8	CSS Environmental
Services							
T0609557699	MP-4	01/13/2006	10.64	DIG	88	1.8	CSS Environmental
Services							
T0609557699	MP-5	01/13/2006	12.79	DIG	88	1.8	CSS Environmental
Services							
T0609557699	MP-6	02/08/2006	11.18	DIG	88	1.8	CSS Environmental
Services							
T0609557699	MP-7	02/08/2006	10.23	DIG	88	1.8	CSS Environmental
Services							
T0609557699	MP-8	02/08/2006	10.71	DIG	88	1.8	CSS Environmental
Services							



APPENDIX H

Soil Analytical Laboratory Reports (Additional Investigation in Area C)

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB1-013106-5.0	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-001	Analyzed:	02/03/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	59-140
Bromofluorobenzene (FID)	110	62-149

Field ID:	SB1-013106-5.5	Batch#:	110045
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-002	Analyzed:	02/01/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	26 H Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	59-140
Bromofluorobenzene (FID)	186 *	62-149

Field ID:	SB1-013106-15.0	Batch#:	110045
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-003	Analyzed:	02/01/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	59-140
Bromofluorobenzene (FID)	95	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID: SB2-013106-4.5
Type: SAMPLE
Lab ID: 184670-004
Diln Fac: 10.00

Batch#: 110045
Sampled: 01/31/06
Analyzed: 02/02/06

Analyte	Result	RL
Gasoline C7-C12	59 H Y	10

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	59-140
Bromofluorobenzene (FID)	133	62-149

Field ID: SB2-013106-6.5
Type: SAMPLE
Lab ID: 184670-005
Diln Fac: 20.00

Batch#: 110045
Sampled: 01/31/06
Analyzed: 02/02/06

Analyte	Result	RL
Gasoline C7-C12	400 H Y	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	112	59-140
Bromofluorobenzene (FID)	221 * >LR b	62-149

Field ID: SB2-013106-15.0
Type: SAMPLE
Lab ID: 184670-006
Diln Fac: 1.000

Batch#: 110090
Sampled: 01/31/06
Analyzed: 02/02/06

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	59-140
Bromofluorobenzene (FID)	93	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB3-013106-4.5	Batch#:	110045
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-007	Analyzed:	02/01/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	1.2 H Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	59-140
Bromofluorobenzene (FID)	105	62-149

Field ID:	SB3-013106-5.5	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-008	Analyzed:	02/02/06
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	360 H Y	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	59-140
Bromofluorobenzene (FID)	157 *	62-149

Field ID:	SB3-013106-15.0	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-009	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	59-140
Bromofluorobenzene (FID)	92	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB5-013106-5.5	Batch#:	110045
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-010	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	2.6 H Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	59-140
Bromofluorobenzene (FID)	106	62-149

Field ID:	SB5-013106-15.5	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-011	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	59-140
Bromofluorobenzene (FID)	91	62-149

Field ID:	SB5-013106-6.5	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-012	Analyzed:	02/02/06
Diln Fac:	50.00		

Analyte	Result	RL
Gasoline C7-C12	300 H Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	59-140
Bromofluorobenzene (FID)	113	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB4-013106-4.5	Batch#:	110045
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-013	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	59-140
Bromofluorobenzene (FID)	97	62-149

Field ID:	SB4-013106-13.0	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-014	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	5.4 H Y	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	59-140
Bromofluorobenzene (FID)	108	62-149

Field ID:	SB4-013106-6.0	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-015	Analyzed:	02/02/06
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	290 H Y	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	59-140
Bromofluorobenzene (FID)	136	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB7-013106-3.5	Batch#:	110045
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-016	Analyzed:	02/01/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	59-140
Bromofluorobenzene (FID)	97	62-149

Field ID:	SB7-013106-15.0	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-017	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	59-140
Bromofluorobenzene (FID)	91	62-149

Field ID:	SB7-013106-6.0	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-018	Analyzed:	02/02/06
Diln Fac:	5.000		

Analyte	Result	RL
Gasoline C7-C12	43 H Y	5.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-140
Bromofluorobenzene (FID)	128	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB6-013106-4.5	Batch#:	110090
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-019	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	59-140
Bromofluorobenzene (FID)	87	62-149

Field ID:	SB6-013106-14.5	Batch#:	110062
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-020	Analyzed:	02/01/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	8.9 H Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	59-140
Bromofluorobenzene (FID)	125	62-149

Field ID:	SB6-013106-6.0	Batch#:	110062
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-021	Analyzed:	02/02/06
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	200 H Y	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	59-140
Bromofluorobenzene (FID)	134	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID: SB8-013106-16.0
Type: SAMPLE
Lab ID: 184670-022
Diln Fac: 1.000

Batch#: 110062
Sampled: 01/31/06
Analyzed: 02/01/06

Analyte	Result	RL
Gasoline C7-C12	ND	0.94

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	59-140
Bromofluorobenzene (FID)	88	62-149

Field ID: SB8-013106-6.0
Type: SAMPLE
Lab ID: 184670-023
Diln Fac: 1.000

Batch#: 110062
Sampled: 01/31/06
Analyzed: 02/01/06

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	59-140
Bromofluorobenzene (FID)	95	62-149

Field ID: SB10-020106-15.5
Type: SAMPLE
Lab ID: 184670-024
Diln Fac: 50.00

Batch#: 110090
Sampled: 02/01/06
Analyzed: 02/02/06

Analyte	Result	RL
Gasoline C7-C12	330 H Y	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	59-140
Bromofluorobenzene (FID)	110	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB10-020106-4.5	Batch#:	110062
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-025	Analyzed:	02/01/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	1.1 H Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	59-140
Bromofluorobenzene (FID)	97	62-149

Field ID:	SB10-020106-13	Batch#:	110062
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-026	Analyzed:	02/02/06
Diln Fac:	100.0		

Analyte	Result	RL
Gasoline C7-C12	620 H Y	100

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	59-140
Bromofluorobenzene (FID)	114	62-149

Field ID:	SB12-020106-15.5	Batch#:	110062
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-027	Analyzed:	02/02/06
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	43 H Y	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	59-140
Bromofluorobenzene (FID)	99	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB12-020106-3.5	Batch#:	110062
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-028	Analyzed:	02/01/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	59-140
Bromofluorobenzene (FID)	89	62-149

Field ID:	SB12-020106-13.0	Batch#:	110062
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-029	Analyzed:	02/02/06
Diln Fac:	20.00		

Analyte	Result	RL
Gasoline C7-C12	370 H Y	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	59-140
Bromofluorobenzene (FID)	157 *	62-149

Field ID:	SB13-020106-16.0	Batch#:	110062
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-030	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	59-140
Bromofluorobenzene (FID)	88	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID: SB13-020106-4.5
Type: SAMPLE
Lab ID: 184670-031
Diln Fac: 1.000

Batch#: 110062
Sampled: 02/01/06
Analyzed: 02/02/06

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	59-140
Bromofluorobenzene (FID)	91	62-149

Field ID: SB13-020106-6.5
Type: SAMPLE
Lab ID: 184670-032
Diln Fac: 200.0

Batch#: 110090
Sampled: 02/01/06
Analyzed: 02/02/06

Analyte	Result	RL
Gasoline C7-C12	860 H Y	200

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	59-140
Bromofluorobenzene (FID)	105	62-149

Type: BLANK
Lab ID: QC326361
Diln Fac: 1.000

Batch#: 110045
Analyzed: 02/01/06

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	59-140
Bromofluorobenzene (FID)	100	62-149

Type: BLANK
Lab ID: QC326430
Diln Fac: 1.000

Batch#: 110062
Analyzed: 02/01/06

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-140
Bromofluorobenzene (FID)	93	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Type:	BLANK	Batch#:	110090
Lab ID:	QC326553	Analyzed:	02/02/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	59-140
Bromofluorobenzene (FID)	91	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
b= See narrative
ND= Not Detected
RL= Reporting Limit
>LR= Response exceeds instrument's linear range

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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC326363	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110045
Units:	mg/Kg	Analyzed:	02/01/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.928	99	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	120	59-140
Bromofluorobenzene (FID)	117	62-149

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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC326432	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110062
Units:	mg/Kg	Analyzed:	02/01/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.770	98	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	109	59-140
Bromofluorobenzene (FID)	97	62-149

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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	SB7-013106-3.5	Diln Fac:	1.000
MSS Lab ID:	184670-016	Batch#:	110045
Matrix:	Soil	Sampled:	01/31/06
Units:	mg/Kg	Received:	02/01/06
Basis:	as received	Analyzed:	02/01/06

Type: MS Lab ID: QC326472

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.1379	10.20	6.241	61	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	59-140
Bromofluorobenzene (FID)	107	62-149

Type: MSD Lab ID: QC326473

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.99	7.982	73	44-120	17	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	59-140
Bromofluorobenzene (FID)	114	62-149

RPD= Relative Percent Difference

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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	SB8-013106-16.0	Diln Fac:	1.000
MSS Lab ID:	184670-022	Batch#:	110062
Matrix:	Soil	Sampled:	01/31/06
Units:	mg/Kg	Received:	02/01/06
Basis:	as received	Analyzed:	02/01/06

Type: MS Lab ID: QC326482

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.07184	9.804	6.360	64	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	59-140
Bromofluorobenzene (FID)	95	62-149

Type: MSD Lab ID: QC326483

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.615	6.670	69	44-120	7	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	103	59-140
Bromofluorobenzene (FID)	93	62-149

RPD= Relative Percent Difference

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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC326555	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110090
Units:	mg/Kg	Analyzed:	02/02/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	10.82	108	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	59-140
Bromofluorobenzene (FID)	94	62-149

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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	SB7-013106-15.0	Diln Fac:	1.000
MSS Lab ID:	184670-017	Batch#:	110090
Matrix:	Soil	Sampled:	01/31/06
Units:	mg/Kg	Received:	02/01/06
Basis:	as received	Analyzed:	02/02/06

Type: MS Lab ID: QC326612

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.07384	10.64	7.113	67	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	59-140
Bromofluorobenzene (FID)	95	62-149

Type: MSD Lab ID: QC326613

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.346	6.465	69	44-120	3	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	59-140
Bromofluorobenzene (FID)	89	62-149

RPD= Relative Percent Difference

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Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB1-013106-5.0	Batch#:	110116
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-001	Prepared:	02/02/06
Diln Fac:	2.000	Analyzed:	02/04/06

Analyte	Result	RL
Diesel C10-C24	200 H Y	2.0
Motor Oil C24-C36	210 L	10

Surrogate	%REC	Limits
Hexacosane	93	48-132

Field ID:	SB1-013106-5.5	Batch#:	110116
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-002	Prepared:	02/02/06
Diln Fac:	40.00	Analyzed:	02/05/06

Analyte	Result	RL
Diesel C10-C24	5,400	40
Motor Oil C24-C36	480 L Y	200

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB1-013106-15.0	Batch#:	110116
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-003	Prepared:	02/02/06
Diln Fac:	1.000	Analyzed:	02/03/06

Analyte	Result	RL
Diesel C10-C24	30 H	1.0
Motor Oil C24-C36	16 L	5.0

Surrogate	%REC	Limits
Hexacosane	91	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB2-013106-4.5	Batch#:	110116
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-004	Prepared:	02/02/06
Diln Fac:	1.000	Analyzed:	02/04/06

Analyte	Result	RL
Diesel C10-C24	93 H Y	1.0
Motor Oil C24-C36	64 L Y	5.0

Surrogate	%REC	Limits
Hexacosane	91	48-132

Field ID:	SB2-013106-6.5	Batch#:	110116
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-005	Prepared:	02/02/06
Diln Fac:	40.00	Analyzed:	02/05/06

Analyte	Result	RL
Diesel C10-C24	5,800	40
Motor Oil C24-C36	470 L Y	200

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB2-013106-15.0	Batch#:	110116
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-006	Prepared:	02/02/06
Diln Fac:	1.000	Analyzed:	02/04/06

Analyte	Result	RL
Diesel C10-C24	71 H	1.0
Motor Oil C24-C36	88 L	5.0

Surrogate	%REC	Limits
Hexacosane	101	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB3-013106-4.5	Batch#:	110116
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-007	Prepared:	02/02/06
Diln Fac:	10.00	Analyzed:	02/04/06

Analyte	Result	RL
Diesel C10-C24	110 H	10
Motor Oil C24-C36	640 L	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB3-013106-5.5	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-008	Prepared:	02/03/06
Diln Fac:	200.0	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	53,000 H	400
Motor Oil C24-C36	22,000 L	2,000

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB3-013106-15.0	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-009	Prepared:	02/03/06
Diln Fac:	1.000	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	27 H	0.99
Motor Oil C24-C36	51 L	5.0

Surrogate	%REC	Limits
Hexacosane	74	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB5-013106-5.5	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-010	Prepared:	02/03/06
Diln Fac:	3.000	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	730 H	3.0
Motor Oil C24-C36	310 L	15

Surrogate	%REC	Limits
Hexacosane	56	48-132

Field ID:	SB5-013106-15.5	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-011	Prepared:	02/03/06
Diln Fac:	3.000	Analyzed:	02/06/06

Analyte	Result	RL
Diesel C10-C24	190 H Y	3.0
Motor Oil C24-C36	580	15

Surrogate	%REC	Limits
Hexacosane	102	48-132

Field ID:	SB5-013106-6.5	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-012	Prepared:	02/03/06
Diln Fac:	50.00	Analyzed:	02/06/06

Analyte	Result	RL
Diesel C10-C24	13,000	50
Motor Oil C24-C36	3,000 H L	250

Surrogate	%REC	Limits
Hexacosane	DO	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB4-013106-4.5	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-013	Prepared:	02/03/06
Diln Fac:	1.000	Analyzed:	02/06/06

Analyte	Result	RL
Diesel C10-C24	210 H Y	1.0
Motor Oil C24-C36	480	5.0

Surrogate	%REC	Limits
Hexacosane	84	48-132

Field ID:	SB4-013106-13.0	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-014	Prepared:	02/03/06
Diln Fac:	10.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	970	10
Motor Oil C24-C36	410 L	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB4-013106-6.0	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-015	Prepared:	02/03/06
Diln Fac:	50.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	5,400	50
Motor Oil C24-C36	950 L	250

Surrogate	%REC	Limits
Hexacosane	DO	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB7-013106-3.5	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-016	Prepared:	02/03/06
Diln Fac:	40.00	Analyzed:	02/06/06

Analyte	Result	RL
Diesel C10-C24	360 H Y	40
Motor Oil C24-C36	2,000	200

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB7-013106-15.0	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-017	Prepared:	02/03/06
Diln Fac:	3.000	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	100 H Y	3.0
Motor Oil C24-C36	170	15

Surrogate	%REC	Limits
Hexacosane	74	48-132

Field ID:	SB7-013106-6.0	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-018	Prepared:	02/03/06
Diln Fac:	10.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	1,700	9.9
Motor Oil C24-C36	170 L Y	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB6-013106-4.5	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-019	Prepared:	02/03/06
Diln Fac:	1.000	Analyzed:	02/04/06

Analyte	Result	RL
Diesel C10-C24	16 H Y	1.0
Motor Oil C24-C36	9.1 L Y	5.0

Surrogate	%REC	Limits
Hexacosane	62	48-132

Field ID:	SB6-013106-14.5	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-020	Prepared:	02/03/06
Diln Fac:	1.000	Analyzed:	02/05/06

Analyte	Result	RL
Diesel C10-C24	230	1.0
Motor Oil C24-C36	34 L	5.0

Surrogate	%REC	Limits
Hexacosane	68	48-132

Field ID:	SB6-013106-6.0	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-021	Prepared:	02/03/06
Diln Fac:	10.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	3,600	10
Motor Oil C24-C36	570 L Y	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB8-013106-16.0	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-022	Prepared:	02/03/06
Diln Fac:	1.000	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	25 H Y	1.0
Motor Oil C24-C36	53	5.0

Surrogate	%REC	Limits
Hexacosane	75	48-132

Field ID:	SB8-013106-6.0	Batch#:	110136
Type:	SAMPLE	Sampled:	01/31/06
Lab ID:	184670-023	Prepared:	02/03/06
Diln Fac:	10.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	3,100 H Y	10
Motor Oil C24-C36	1,600 L	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB10-020106-15.5	Batch#:	110136
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-024	Prepared:	02/03/06
Diln Fac:	20.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	4,600	20
Motor Oil C24-C36	300 L Y	100

Surrogate	%REC	Limits
Hexacosane	DO	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB10-020106-4.5	Batch#:	110136
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-025	Prepared:	02/03/06
Diln Fac:	3.000	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	110 H Y	3.0
Motor Oil C24-C36	240 H	15

Surrogate	%REC	Limits
Hexacosane	85	48-132

Field ID:	SB10-020106-13	Batch#:	110136
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-026	Prepared:	02/03/06
Diln Fac:	50.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	8,300	50
Motor Oil C24-C36	610 L Y	250

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB12-020106-15.5	Batch#:	110136
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-027	Prepared:	02/03/06
Diln Fac:	10.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	1,500	10
Motor Oil C24-C36	60 L Y	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB12-020106-3.5	Batch#:	110159
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-028	Prepared:	02/04/06
Diln Fac:	3.000	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	280 H Y	3.0
Motor Oil C24-C36	790	15

Surrogate	%REC	Limits
Hexacosane	99	48-132

Field ID:	SB12-020106-13.0	Batch#:	110159
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-029	Prepared:	02/04/06
Diln Fac:	50.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	12,000	50
Motor Oil C24-C36	610 L Y	250

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB13-020106-16.0	Batch#:	110159
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-030	Prepared:	02/04/06
Diln Fac:	1.000	Analyzed:	02/06/06

Analyte	Result	RL
Diesel C10-C24	17 H Y	1.0
Motor Oil C24-C36	28 H	5.0

Surrogate	%REC	Limits
Hexacosane	96	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Field ID:	SB13-020106-4.5	Batch#:	110159
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-031	Prepared:	02/04/06
Diln Fac:	1.000	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	21 Y	1.0
Motor Oil C24-C36	100	5.0

Surrogate	%REC	Limits
Hexacosane	111	48-132

Field ID:	SB13-020106-6.5	Batch#:	110159
Type:	SAMPLE	Sampled:	02/01/06
Lab ID:	184670-032	Prepared:	02/04/06
Diln Fac:	40.00	Analyzed:	02/07/06

Analyte	Result	RL
Diesel C10-C24	16,000	40
Motor Oil C24-C36	1,000 L Y	200

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Type:	BLANK	Prepared:	02/02/06
Lab ID:	QC326657	Analyzed:	02/03/06
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	110116		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	77	48-132

Type:	BLANK	Batch#:	110136
Lab ID:	QC326729	Prepared:	02/03/06
Diln Fac:	1.000	Analyzed:	02/04/06

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	90	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

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Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Soil	Basis:	as received
Units:	mg/Kg	Received:	02/01/06

Type:	BLANK	Prepared:	02/04/06
Lab ID:	QC326843	Analyzed:	02/06/06
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	110159		

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	101	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

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Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC326658	Batch#:	110116
Matrix:	Soil	Prepared:	02/02/06
Units:	mg/Kg	Analyzed:	02/03/06
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.30	43.21	86	54-137

Surrogate	%REC	Limits
Hexacosane	80	48-132

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Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	110116
MSS Lab ID:	184663-009	Sampled:	01/31/06
Matrix:	Soil	Received:	01/31/06
Units:	mg/Kg	Prepared:	02/02/06
Basis:	as received	Analyzed:	02/03/06
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC326659

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	4.063	49.90	42.27	77	28-163

Surrogate	%REC	Limits
Hexacosane	79	48-132

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC326660

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.38	41.27	74	28-163	3	46

Surrogate	%REC	Limits
Hexacosane	77	48-132

RPD= Relative Percent Difference

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Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC326730	Batch#:	110136
Matrix:	Soil	Prepared:	02/03/06
Units:	mg/Kg	Analyzed:	02/04/06
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.11	40.91	82	54-137

Surrogate	%REC	Limits
Hexacosane	80	48-132

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	SB12-020106-15.5	Batch#:	110136
MSS Lab ID:	184670-027	Sampled:	02/01/06
Matrix:	Soil	Received:	02/01/06
Units:	mg/Kg	Prepared:	02/03/06
Basis:	as received	Analyzed:	02/04/06
Diln Fac:	1.000		

Type: MS Lab ID: QC326731

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	1,529	49.98	1,675 >LR	293 NM	28-163

Surrogate	%REC	Limits
Hexacosane	93	48-132

Type: MSD Lab ID: QC326732

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.07	1,427 >LR	-203 NM	28-163	NC	46

Surrogate	%REC	Limits
Hexacosane	83	48-132

NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC326844	Batch#:	110159
Matrix:	Soil	Prepared:	02/04/06
Units:	mg/Kg	Analyzed:	02/06/06
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.88	51.97	104	54-137

Surrogate	%REC	Limits
Hexacosane	92	48-132

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	STANDARD	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	184707-007	Batch#:	110159
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/02/06
Basis:	as received	Prepared:	02/04/06

Type: MS
Lab ID: QC326845
Analyzed: 02/06/06
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	2.574	50.33	50.87	96	28-163

Surrogate	%REC	Limits
Hexacosane	93	48-132

Type: MSD
Lab ID: QC326846
Analyzed: 02/07/06
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.18	53.57	102	28-163	5	46

Surrogate	%REC	Limits
Hexacosane	98	48-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8270C-SIM
Field ID:	SB4-013106-6.0	Batch#:	110148
Lab ID:	184670-015	Sampled:	01/31/06
Matrix:	Soil	Received:	02/01/06
Units:	ug/Kg	Prepared:	02/03/06
Basis:	as received	Analyzed:	02/06/06
Diln Fac:	40.00		

Analyte	Result	RL
Naphthalene	310	200
Acenaphthylene	340	200
Acenaphthene	850	200
Fluorene	3,700	200
Phenanthrene	5,400	200
Anthracene	470	200
Fluoranthene	ND	200
Pyrene	230	200
Benzo(a)anthracene	ND	200
Chrysene	ND	200
Benzo(b)fluoranthene	ND	200
Benzo(k)fluoranthene	ND	200
Benzo(a)pyrene	ND	200
Indeno(1,2,3-cd)pyrene	ND	200
Dibenz(a,h)anthracene	ND	200
Benzo(g,h,i)perylene	ND	200

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	33-151
2-Fluorobiphenyl	DO	34-126
Terphenyl-d14	DO	42-135

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8270C-SIM
Field ID:	SB6-013106-6.0	Batch#:	110148
Lab ID:	184670-021	Sampled:	01/31/06
Matrix:	Soil	Received:	02/01/06
Units:	ug/Kg	Prepared:	02/03/06
Basis:	as received	Analyzed:	02/06/06
Diln Fac:	25.00		

Analyte	Result	RL
Naphthalene	ND	130
Acenaphthylene	ND	130
Acenaphthene	280	130
Fluorene	140	130
Phenanthrene	210	130
Anthracene	300	130
Fluoranthene	140	130
Pyrene	210	130
Benzo(a)anthracene	ND	130
Chrysene	ND	130
Benzo(b)fluoranthene	ND	130
Benzo(k)fluoranthene	ND	130
Benzo(a)pyrene	ND	130
Indeno(1,2,3-cd)pyrene	ND	130
Dibenz(a,h)anthracene	ND	130
Benzo(g,h,i)perylene	ND	130

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	33-151
2-Fluorobiphenyl	DO	34-126
Terphenyl-d14	DO	42-135

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8270C-SIM
Field ID:	SB10-020106-13	Batch#:	110148
Lab ID:	184670-026	Sampled:	02/01/06
Matrix:	Soil	Received:	02/01/06
Units:	ug/Kg	Prepared:	02/03/06
Basis:	as received	Analyzed:	02/07/06
Diln Fac:	20.00		

Analyte	Result	RL
Naphthalene	510	100
Acenaphthylene	440	100
Acenaphthene	1,100	100
Fluorene	4,400	100
Phenanthrene	6,200	100
Anthracene	640	100
Fluoranthene	260	100
Pyrene	340	100
Benzo(a)anthracene	ND	100
Chrysene	120	100
Benzo(b)fluoranthene	ND	100
Benzo(k)fluoranthene	ND	100
Benzo(a)pyrene	ND	100
Indeno(1,2,3-cd)pyrene	ND	100
Dibenz(a,h)anthracene	ND	100
Benzo(g,h,i)perylene	ND	100

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	33-151
2-Fluorobiphenyl	DO	34-126
Terphenyl-d14	DO	42-135

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8270C-SIM
Field ID:	SB12-020106-13.0	Batch#:	110148
Lab ID:	184670-029	Sampled:	02/01/06
Matrix:	Soil	Received:	02/01/06
Units:	ug/Kg	Prepared:	02/03/06
Basis:	as received	Analyzed:	02/06/06
Diln Fac:	40.00		

Analyte	Result	RL
Naphthalene	340	200
Acenaphthylene	430	200
Acenaphthene	1,100	200
Fluorene	4,300	200
Phenanthrene	6,300	200
Anthracene	600	200
Fluoranthene	300	200
Pyrene	280	200
Benzo(a)anthracene	ND	200
Chrysene	ND	200
Benzo(b)fluoranthene	ND	200
Benzo(k)fluoranthene	ND	200
Benzo(a)pyrene	ND	200
Indeno(1,2,3-cd)pyrene	ND	200
Dibenz(a,h)anthracene	ND	200
Benzo(g,h,i)perylene	ND	200

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	33-151
2-Fluorobiphenyl	DO	34-126
Terphenyl-d14	DO	42-135

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC326781	Batch#:	110148
Matrix:	Soil	Prepared:	02/03/06
Units:	ug/Kg	Analyzed:	02/03/06
Basis:	as received		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	72	33-151
2-Fluorobiphenyl	69	34-126
Terphenyl-d14	76	42-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC326782	Batch#:	110148
Matrix:	Soil	Prepared:	02/03/06
Units:	ug/Kg	Analyzed:	02/03/06
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.52	17.93	53	49-120
Pyrene	33.52	18.05	54	48-120

Surrogate	%REC	Limits
Nitrobenzene-d5	59	33-151
2-Fluorobiphenyl	58	34-126
Terphenyl-d14	60	42-135

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	184670	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	STANDARD	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	110148
MSS Lab ID:	184679-001	Sampled:	02/01/06
Matrix:	Soil	Received:	02/01/06
Units:	ug/Kg	Prepared:	02/03/06
Basis:	as received	Analyzed:	02/06/06
Diln Fac:	1.000		

Type: MS Lab ID: QC326783

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	1.891	33.52	13.18	34 *	52-125
Pyrene	170.2	33.52	64.32	-316 NM	39-135

Surrogate	%REC	Limits
Nitrobenzene-d5	51	33-151
2-Fluorobiphenyl	38	34-126
Terphenyl-d14	30 *	42-135

Type: MSD Lab ID: QC326784

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.06	26.55	75	52-125	68 *	35
Pyrene	33.06	399.4 >LR	693 NM	39-135	NC	44

Surrogate	%REC	Limits
Nitrobenzene-d5	87	33-151
2-Fluorobiphenyl	68	34-126
Terphenyl-d14	77	42-135

*= Value outside of QC limits; see narrative
NC= Not Calculated
NM= Not Meaningful: Sample concentration > 4X spike concentration
>LR= Response exceeds instrument's linear range
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 184676

Sampler: Marylinn Langner

Report To: " "

Company: Malcolm Pirnie

Telephone: 510 735 3034

Fax: 510 596 8855

Project No.: 2626003

Project Name: General Mills

Project P.O.:

Turnaround Time: [illegible]

Analysis

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste		# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE		TPH-G, D, MO 8015
-1	SB1 -013106-5.0	01/31/06 11:10	X				1						X
-2	SB1 -013106-5.5	" 11:20	X				1						X
-3	SB1 -013106-15.0	" 11:30	X				1						X
-4	SB2 -013106-4.5	11:50	X				1						X
-5	SB2 -013106-6.5	" 12:00	X				1						X
-6	SB2 -013106-15.0	" 1200	X				1						X
-7	SB3-013106-4.5	" 1320	X				1						X
-8	SB3 -013106-5.5	" 13:30	X				1						X
-9	SB3 -013106-15.0	" 1340	X				1						X
-10	SB5 -013106-5.5	" 1405	X				1						X
-11	SB5 -013106-15.5	" 1415	X				1						X
-12	SB5 -013106-6.5	" 1420	X				1						X
-13	SB4 -013106-4.5	" 1435	X				1						X

Notes:

SAMPLE RECEIPT
☐ Intact ☐ Cold
☒ On Ice ☐ Ambient

Preservative Correct?
☐ Yes ☐ No ☐ N/A

RELINQUISHED BY:		RECEIVED BY:	
Marylinn Langner	02/01/06 10:50 DATE / TIME	[illegible signature]	2/1/06 1050 DATE / TIME
	DATE / TIME		DATE / TIME
	DATE / TIME		DATE / TIME

SIGNATURE

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 184670

Sampler:

Project No.: [illegible]008

Report To: Maryline Laugier

Project Name: General Mills

Company: MPI

Project P.O.:

Telephone:

Turnaround Time:

Fax:

Analysis

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	TPH G, D, MO 8015	PAHs 8270 (Naphthalene) (8270SIM)
-14	SB4-013106-13.0	01/31/06 1410	X			1					X	
-15	SB4-013106-6.0	1445									X	X
-16	SB7-013106-3.5	1520									X	
-17	SB7-013106-10.0	15[illegible]									X	
-18	SB7-013106-6.0	1535									X	
-19	SB6-013106-4.5	1545									X	
-20	SB6-013106-14.5	1550									X	
-21	SB6-013106-6.0	1555									X	X
-22	SB8-013106-16.0	1655									X	
-23	SB8-013106-6.0	1700									X	
-24	SB10-020106-15.5	02/01/06 8:45									X	
-25	SB10-020106-4.5	" 8:50									X	
-26	SB10-020106-13	" 9:00									X	X

Notes:

SAMPLE RECEIPT
- [ ] Intact
- [ ] Cold
- [x] On Ice
- [ ] Ambient

Preservative Correct?
- [ ] Yes
- [ ] No
- [ ] N/A

RELINQUISHED BY:		RECEIVED BY:	
Maryline Laugier	02/01/06 1050 DATE / TIME	[signature]	2/1/06 1050 DATE / TIME
	DATE / TIME		DATE / TIME
	DATE / TIME		DATE / TIME

SIGNATURE

30/01 2006 13 24 FAX

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 184670

Sampler:

Report To: Maryline Laugier

Company: MPI

Telephone:

Fax:

Project No.: 262008

Project Name: Oxnard Mills

Project P.O.:

Turnaround Time:

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Analysis: TPH G, D, MO 8015	Analysis: 8270-SIM - Naphthalene
-27	SB12-020106-15.5	02/01/06 940	X			1					X	
-28	SB12-020106-3.5	〃 1000	X			1					X	
-29	SB12-020106-13.0	955	X								X	X
-30	SB13-020106-16.0	1015	X								X	
-31	SB13-020106-4.5	1030	X								X	
-32	SB13-020106-6.5	1035	X								X	
	~~SB-020106~~											
	~~SB-020106~~											
	~~SB-020106~~											
	~~SB-020106~~											
	~~SB-020106~~											
	~~SB-020106~~											
	~~SB-020106~~											

Notes:

SAMPLE RECEIPT
- [ ] Intact
- [ ] Cold
- [x] On Ice
- [ ] Ambient

Preservative Correct?
- [ ] Yes
- [ ] No
- [ ] N/A

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
Maryline Laugier	02/01/06 10:50	[signature]	2/1/06 1050

SIGNATURE

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184700	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/01/06
Units:	mg/Kg	Received:	02/02/06
Basis:	as received		

Field ID:	SB14-020106-15.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	110164
Lab ID:	184700-001	Analyzed:	02/05/06

Analyte	Result	RL
Gasoline C7-C12	1.9 H Y	0.99

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	59-140
Bromofluorobenzene (FID)	105	62-149

Field ID:	SB14-020106-11.0	Diln Fac:	10.00
Type:	SAMPLE	Batch#:	110147
Lab ID:	184700-003	Analyzed:	02/04/06

Analyte	Result	RL
Gasoline C7-C12	160 H Y	10

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	59-140
Bromofluorobenzene (FID)	197 *	62-149

Type:	BLANK	Batch#:	110147
Lab ID:	QC326778	Analyzed:	02/03/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	59-140
Bromofluorobenzene (FID)	95	62-149

Type:	BLANK	Batch#:	110164
Lab ID:	QC326863	Analyzed:	02/05/06
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	59-140
Bromofluorobenzene (FID)	94	62-149

*= Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184700	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC326780	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110147
Units:	mg/Kg	Analyzed:	02/03/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2.000	2.079	104	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	59-140
Bromofluorobenzene (FID)	108	62-149

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184700	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	184717-010	Batch#:	110147
Matrix:	Soil	Sampled:	02/01/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received	Analyzed:	02/04/06

Type: MS Lab ID: QC326828

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.1393	10.00	8.197	82	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	59-140
Bromofluorobenzene (FID)	107	62-149

Type: MSD Lab ID: QC326829

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	7.829	78	44-120	5	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	59-140
Bromofluorobenzene (FID)	107	62-149

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184700	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC326864	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110164
Units:	mg/Kg	Analyzed:	02/05/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	10.27	103	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	59-140
Bromofluorobenzene (FID)	100	62-149

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184700	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	SB18-020206-10.0	Diln Fac:	1.000
MSS Lab ID:	184729-004	Batch#:	110164
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received	Analyzed:	02/05/06

Type: MS Lab ID: QC326868

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.2438	9.709	5.751	57	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	59-140
Bromofluorobenzene (FID)	94	62-149

Type: MSD Lab ID: QC326869

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.42	5.378	49	44-120	14	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	59-140
Bromofluorobenzene (FID)	91	62-149

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184700	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/01/06
Units:	mg/Kg	Received:	02/02/06
Basis:	as received	Prepared:	02/04/06
Batch#:	110159		

Field ID:	SB14-020106-15.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/07/06
Lab ID:	184700-001		

Analyte	Result	RL
Diesel C10-C24	71	1.0
Motor Oil C24-C36	19 L Y	5.0

Surrogate	%REC	Limits
Hexacosane	86	48-132

Field ID:	SB14-020106-11.0	Diln Fac:	20.00
Type:	SAMPLE	Analyzed:	02/08/06
Lab ID:	184700-003		

Analyte	Result	RL
Diesel C10-C24	3,200	20
Motor Oil C24-C36	300 L Y	100

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Type:	BLANK	Analyzed:	02/06/06
Lab ID:	QC326843	Cleanup Method:	EPA 3630C
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	101	48-132

L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184700	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC326844	Batch#:	110159
Matrix:	Soil	Prepared:	02/04/06
Units:	mg/Kg	Analyzed:	02/06/06
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.88	51.97	104	54-137

Surrogate	%REC	Limits
Hexacosane	92	48-132

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184700	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	184707-007	Batch#:	110159
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/02/06
Basis:	as received	Prepared:	02/04/06

Type: MS
Lab ID: QC326845
Analyzed: 02/06/06
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	2.574	50.33	50.87	96	28-163

Surrogate	%REC	Limits
Hexacosane	93	48-132

Type: MSD
Lab ID: QC326846
Analyzed: 02/07/06
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.18	53.57	102	28-163	5	46

Surrogate	%REC	Limits
Hexacosane	98	48-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 184700

Sampler: Maryline Lavigne

Project No.: 2626003

Report To:

Project Name: General Mills

Company: Malcolm Pirnie

Project P.O.:

Telephone: 510 735 3034

Turnaround Time:

Fax: 510 596 8855

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Analysis: TPHG, D, TO 15
-1	SB14-020106-15.0	020106 1105	X			1					X
-2	SB14-020106-5.0	1115									
-3	SB14-020106-11.0	1120									
-4	SB15-020106-10.0	1135									
-5	SB15-020106-5.0	1145									
-6	SB15-020106-6.5	1150									
-7	SB9-020106-4.0	1420									
-8	SB9-020106-9.5	1420									
-9	SB11-020106-4.0	1510									
-11	SB11-020106-5.0	1515									
-11	SB16-020106-2.5	1520									
-12	SB16-020106-10.5	1525									
N/A	~~SB-020106~~										

Notes:

SAMPLE RECEIPT
☒ Intact ☒ Cold
☒ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☒ N/A

RELINQUISHED BY:

Maryline Lavigne 020206 5:40pm DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY:

2/2/6 940 DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/02/06
Basis:	as received	Received:	02/03/06

Field ID: SB17-020206-14.5
Type: SAMPLE
Lab ID: 184729-001
Batch#: 110147
Analyzed: 02/03/06

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	59-140
Bromofluorobenzene (FID)	103	62-149

Field ID: SB17-020206-4.5
Type: SAMPLE
Lab ID: 184729-002
Batch#: 110147
Analyzed: 02/03/06

Analyte	Result	RL
Gasoline C7-C12	ND	0.96

Surrogate	%REC	Limits
Trifluorotoluene (FID)	93	59-140
Bromofluorobenzene (FID)	98	62-149

Field ID: SB18-020206-10.0
Type: SAMPLE
Lab ID: 184729-004
Batch#: 110164
Analyzed: 02/05/06

Analyte	Result	RL
Gasoline C7-C12	ND	0.91

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	59-140
Bromofluorobenzene (FID)	97	62-149

Field ID: SB18-020206-4.5
Type: SAMPLE
Lab ID: 184729-005
Batch#: 110147
Analyzed: 02/04/06

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	59-140
Bromofluorobenzene (FID)	101	62-149

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/02/06
Basis:	as received	Received:	02/03/06

Field ID: SB20-020206-4.0 Batch#: 110147
Type: SAMPLE Analyzed: 02/04/06
Lab ID: 184729-010

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	59-140
Bromofluorobenzene (FID)	99	62-149

Field ID: SB20-020206-9.0 Batch#: 110164
Type: SAMPLE Analyzed: 02/05/06
Lab ID: 184729-011

Analyte	Result	RL
Gasoline C7-C12	ND	0.97

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-140
Bromofluorobenzene (FID)	93	62-149

Field ID: SB20-020206-5.5 Batch#: 110164
Type: SAMPLE Analyzed: 02/05/06
Lab ID: 184729-012

Analyte	Result	RL
Gasoline C7-C12	4.5 H Y	0.98

Surrogate	%REC	Limits
Trifluorotoluene (FID)	96	59-140
Bromofluorobenzene (FID)	101	62-149

Field ID: SB21-020206-15.0 Batch#: 110164
Type: SAMPLE Analyzed: 02/05/06
Lab ID: 184729-013

Analyte	Result	RL
Gasoline C7-C12	ND	0.91

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	59-140
Bromofluorobenzene (FID)	99	62-149

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/02/06
Basis:	as received	Received:	02/03/06

Field ID: SB21-020206-4.0 Batch#: 110147
Type: SAMPLE Analyzed: 02/04/06
Lab ID: 184729-014

Analyte	Result	RL
Gasoline C7-C12	ND	0.99

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	59-140
Bromofluorobenzene (FID)	105	62-149

Field ID: SB22-020206-4.5 Batch#: 110147
Type: SAMPLE Analyzed: 02/04/06
Lab ID: 184729-015

Analyte	Result	RL
Gasoline C7-C12	ND	0.94

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-140
Bromofluorobenzene (FID)	98	62-149

Field ID: SB22-020206-14.0 Batch#: 110164
Type: SAMPLE Analyzed: 02/05/06
Lab ID: 184729-017

Analyte	Result	RL
Gasoline C7-C12	1.3 H Y	0.98

Surrogate	%REC	Limits
Trifluorotoluene (FID)	98	59-140
Bromofluorobenzene (FID)	104	62-149

Field ID: SB23-020206-4.5 Batch#: 110147
Type: SAMPLE Analyzed: 02/04/06
Lab ID: 184729-018

Analyte	Result	RL
Gasoline C7-C12	ND	0.96

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	59-140
Bromofluorobenzene (FID)	96	62-149

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/02/06
Basis:	as received	Received:	02/03/06

Field ID: SB24-020206-4.5 Batch#: 110147
Type: SAMPLE Analyzed: 02/04/06
Lab ID: 184729-019

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	59-140
Bromofluorobenzene (FID)	95	62-149

Field ID: SB24-020206-10.0 Batch#: 110164
Type: SAMPLE Analyzed: 02/05/06
Lab ID: 184729-020

Analyte	Result	RL
Gasoline C7-C12	ND	0.95

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	59-140
Bromofluorobenzene (FID)	97	62-149

Field ID: SB23-020206-10.0 Batch#: 110147
Type: SAMPLE Analyzed: 02/04/06
Lab ID: 184729-021

Analyte	Result	RL
Gasoline C7-C12	ND	0.96

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-140
Bromofluorobenzene (FID)	96	62-149

Type: BLANK Batch#: 110147
Lab ID: QC326778 Analyzed: 02/03/06

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	59-140
Bromofluorobenzene (FID)	95	62-149

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

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Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	02/02/06
Basis:	as received	Received:	02/03/06

Type:	BLANK	Batch#:	110164
Lab ID:	QC326863	Analyzed:	02/05/06

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	59-140
Bromofluorobenzene (FID)	94	62-149

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC326780	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110147
Units:	mg/Kg	Analyzed:	02/03/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2.000	2.079	104	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	59-140
Bromofluorobenzene (FID)	108	62-149

Curtis & Tompkins, Ltd.
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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	184717-010	Batch#:	110147
Matrix:	Soil	Sampled:	02/01/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received	Analyzed:	02/04/06

Type: MS Lab ID: QC326828

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.1393	10.00	8.197	82	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	59-140
Bromofluorobenzene (FID)	107	62-149

Type: MSD Lab ID: QC326829

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	7.829	78	44-120	5	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	59-140
Bromofluorobenzene (FID)	107	62-149

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC326864	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110164
Units:	mg/Kg	Analyzed:	02/05/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	10.27	103	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	113	59-140
Bromofluorobenzene (FID)	100	62-149

Curtis & Tompkins, Ltd.
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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	SB18-020206-10.0	Diln Fac:	1.000
MSS Lab ID:	184729-004	Batch#:	110164
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received	Analyzed:	02/05/06

Type: MS Lab ID: QC326868

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.2438	9.709	5.751	57	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	59-140
Bromofluorobenzene (FID)	94	62-149

Type: MSD Lab ID: QC326869

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.42	5.378	49	44-120	14	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	99	59-140
Bromofluorobenzene (FID)	91	62-149

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received		

Field ID:	SB17-020206-14.5	Batch#:	110159
Type:	SAMPLE	Prepared:	02/04/06
Lab ID:	184729-001	Analyzed:	02/07/06
Diln Fac:	2.000		

Analyte	Result	RL
Diesel C10-C24	150 H Y	2.0
Motor Oil C24-C36	340	10

Surrogate	%REC	Limits
Hexacosane	113	48-132

Field ID:	SB17-020206-4.5	Batch#:	110159
Type:	SAMPLE	Prepared:	02/04/06
Lab ID:	184729-002	Analyzed:	02/07/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	5.2 H Y	1.0
Motor Oil C24-C36	48	5.0

Surrogate	%REC	Limits
Hexacosane	88	48-132

Field ID:	SB18-020206-10.0	Batch#:	110159
Type:	SAMPLE	Prepared:	02/04/06
Lab ID:	184729-004	Analyzed:	02/07/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	120 H Y	1.0
Motor Oil C24-C36	350 L	5.0

Surrogate	%REC	Limits
Hexacosane	114	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received		

Field ID:	SB18-020206-4.5	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-005	Analyzed:	02/08/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	9.7 H Y	0.99
Motor Oil C24-C36	32	5.0

Surrogate	%REC	Limits
Hexacosane	84	48-132

Field ID:	SB20-020206-4.0	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-010	Analyzed:	02/08/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	25 H Y	0.99
Motor Oil C24-C36	52	5.0

Surrogate	%REC	Limits
Hexacosane	88	48-132

Field ID:	SB20-020206-9.0	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-011	Analyzed:	02/08/06
Diln Fac:	3.000		

Analyte	Result	RL
Diesel C10-C24	370 H Y	3.0
Motor Oil C24-C36	690	15

Surrogate	%REC	Limits
Hexacosane	113	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received		

Field ID:	SB20-020206-5.5	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-012	Analyzed:	02/09/06
Diln Fac:	40.00		

Analyte	Result	RL
Diesel C10-C24	4,800 H Y	40
Motor Oil C24-C36	2,100	200

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID:	SB21-020206-15.0	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-013	Analyzed:	02/06/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	11 H Y	1.0
Motor Oil C24-C36	22	5.0

Surrogate	%REC	Limits
Hexacosane	95	48-132

Field ID:	SB21-020206-4.0	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-014	Analyzed:	02/08/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	7.1 H	0.99
Motor Oil C24-C36	32	5.0

Surrogate	%REC	Limits
Hexacosane	103	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received		

Field ID:	SB22-020206-4.5	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-015	Analyzed:	02/08/06
Diln Fac:	3.000		

Analyte	Result	RL
Diesel C10-C24	48 H Y	3.0
Motor Oil C24-C36	180 H	15

Surrogate	%REC	Limits
Hexacosane	98	48-132

Field ID:	SB22-020206-14.0	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-017	Analyzed:	02/06/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	14 H Y	0.99
Motor Oil C24-C36	5.9 L	5.0

Surrogate	%REC	Limits
Hexacosane	86	48-132

Field ID:	SB23-020206-4.5	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-018	Analyzed:	02/08/06
Diln Fac:	10.00		

Analyte	Result	RL
Diesel C10-C24	21 H Y	9.9
Motor Oil C24-C36	550 H	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received		

Field ID:	SB24-020206-4.5	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-019	Analyzed:	02/09/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	72 H Y	0.99
Motor Oil C24-C36	330 H	5.0

Surrogate	%REC	Limits
Hexacosane	95	48-132

Field ID:	SB24-020206-10.0	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-020	Analyzed:	02/08/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	160 H Y	1.0
Motor Oil C24-C36	330 H	5.0

Surrogate	%REC	Limits
Hexacosane	95	48-132

Field ID:	SB23-020206-10.0	Batch#:	110166
Type:	SAMPLE	Prepared:	02/05/06
Lab ID:	184729-021	Analyzed:	02/06/06
Diln Fac:	1.000		

Analyte	Result	RL
Diesel C10-C24	3.8 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	104	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/03/06
Basis:	as received		

Type:	BLANK	Prepared:	02/04/06
Lab ID:	QC326843	Analyzed:	02/06/06
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	110159		

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	101	48-132

Type:	BLANK	Prepared:	02/05/06
Lab ID:	QC326870	Analyzed:	02/06/06
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	110166		

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	73	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC326844	Batch#:	110159
Matrix:	Soil	Prepared:	02/04/06
Units:	mg/Kg	Analyzed:	02/06/06
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.88	51.97	104	54-137

Surrogate	%REC	Limits
Hexacosane	92	48-132

Curtis & Tompkins, Ltd.
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Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	184707-007	Batch#:	110159
Matrix:	Soil	Sampled:	02/02/06
Units:	mg/Kg	Received:	02/02/06
Basis:	as received	Prepared:	02/04/06

Type: MS
Lab ID: QC326845

Analyzed: 02/06/06
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	2.574	50.33	50.87	96	28-163

Surrogate	%REC	Limits
Hexacosane	93	48-132

Type: MSD
Lab ID: QC326846

Analyzed: 02/07/06
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.18	53.57	102	28-163	5	46

Surrogate	%REC	Limits
Hexacosane	98	48-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
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Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC326871	Batch#:	110166
Matrix:	Soil	Prepared:	02/05/06
Units:	mg/Kg	Analyzed:	02/06/06
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.85	53.17	107	54-137

Surrogate	%REC	Limits
Hexacosane	97	48-132

Curtis & Tompkins, Ltd.
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Semivolatile Organics by GC/MS SIM

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	2626008	Analysis:	EPA 8270C-SIM
Field ID:	SB20-020206-4.0	Batch#:	110224
Lab ID:	184729-010	Sampled:	02/02/06
Matrix:	Soil	Received:	02/03/06
Units:	ug/Kg	Prepared:	02/07/06
Basis:	as received	Analyzed:	02/07/06
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	6.9	5.0
Acenaphthylene	ND	5.0
Acenaphthene	13	5.0
Fluorene	13	5.0
Phenanthrene	42	5.0
Anthracene	ND	5.0
Fluoranthene	30	5.0
Pyrene	23	5.0
Benzo(a)anthracene	6.7	5.0
Chrysene	7.1	5.0
Benzo(b)fluoranthene	5.0	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	76	33-151
2-Fluorobiphenyl	58	34-126
Terphenyl-d14	77	42-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	2626008	Analysis:	EPA 8270C-SIM
Field ID:	SB20-020206-9.0	Batch#:	110224
Lab ID:	184729-011	Sampled:	02/02/06
Matrix:	Soil	Received:	02/03/06
Units:	ug/Kg	Prepared:	02/07/06
Basis:	as received	Analyzed:	02/09/06
Diln Fac:	5.000		

Analyte	Result	RL
Naphthalene	280	25
Acenaphthylene	ND	25
Acenaphthene	230	25
Fluorene	170	25
Phenanthrene	610	25
Anthracene	74	25
Fluoranthene	440	25
Pyrene	440	25
Benzo(a)anthracene	110	25
Chrysene	110	25
Benzo(b)fluoranthene	86	25
Benzo(k)fluoranthene	59	25
Benzo(a)pyrene	96	25
Indeno(1,2,3-cd)pyrene	55	25
Dibenz(a,h)anthracene	ND	25
Benzo(g,h,i)perylene	76	25

Surrogate	%REC	Limits
Nitrobenzene-d5	56	33-151
2-Fluorobiphenyl	45	34-126
Terphenyl-d14	52	42-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Semivolatile Organics by GC/MS SIM

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	EPA 3550B
Project#:	2626008	Analysis:	EPA 8270C-SIM
Field ID:	SB20-020206-5.5	Batch#:	110224
Lab ID:	184729-012	Sampled:	02/02/06
Matrix:	Soil	Received:	02/03/06
Units:	ug/Kg	Prepared:	02/07/06
Basis:	as received	Analyzed:	02/09/06
Diln Fac:	1,000		

Analyte	Result	RL
Naphthalene	210,000	10,000
Acenaphthylene	ND	10,000
Acenaphthene	160,000	10,000
Fluorene	100,000	10,000
Phenanthrene	360,000	10,000
Anthracene	39,000	10,000
Fluoranthene	240,000	10,000
Pyrene	170,000	10,000
Benzo(a)anthracene	45,000	10,000
Chrysene	38,000	10,000
Benzo(b)fluoranthene	26,000	10,000
Benzo(k)fluoranthene	20,000	10,000
Benzo(a)pyrene	27,000	10,000
Indeno(1,2,3-cd)pyrene	ND	10,000
Dibenz(a,h)anthracene	ND	10,000
Benzo(g,h,i)perylene	11,000	10,000

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	33-151
2-Fluorobiphenyl	DO	34-126
Terphenyl-d14	DO	42-135

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Semivolatile Organics by GC/MS SIM

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	2626008	Analysis:	EPA 8270C-SIM
Field ID:	SB24-020206-4.5	Batch#:	110224
Lab ID:	184729-019	Sampled:	02/02/06
Matrix:	Soil	Received:	02/03/06
Units:	ug/Kg	Prepared:	02/07/06
Basis:	as received	Analyzed:	02/08/06
Diln Fac:	2.000		

Analyte	Result	RL
Naphthalene	ND	9.9
Acenaphthylene	ND	9.9
Acenaphthene	ND	9.9
Fluorene	ND	9.9
Phenanthrene	33	9.9
Anthracene	ND	9.9
Fluoranthene	31	9.9
Pyrene	30	9.9
Benzo(a)anthracene	ND	9.9
Chrysene	15	9.9
Benzo(b)fluoranthene	11	9.9
Benzo(k)fluoranthene	ND	9.9
Benzo(a)pyrene	ND	9.9
Indeno(1,2,3-cd)pyrene	ND	9.9
Dibenz(a,h)anthracene	ND	9.9
Benzo(g,h,i)perylene	11	9.9

Surrogate	%REC	Limits
Nitrobenzene-d5	97	33-151
2-Fluorobiphenyl	75	34-126
Terphenyl-d14	80	42-135

ND= Not Detected
RL= Reporting Limit

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Semivolatile Organics by GC/MS SIM

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	2626008	Analysis:	EPA 8270C-SIM
Field ID:	SB24-020206-10.0	Batch#:	110224
Lab ID:	184729-020	Sampled:	02/02/06
Matrix:	Soil	Received:	02/03/06
Units:	ug/Kg	Prepared:	02/07/06
Basis:	as received	Analyzed:	02/08/06
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	11	5.1
Acenaphthylene	ND	5.1
Acenaphthene	29	5.1
Fluorene	25	5.1
Phenanthrene	130	5.1
Anthracene	17	5.1
Fluoranthene	96	5.1
Pyrene	110	5.1
Benzo(a)anthracene	26	5.1
Chrysene	32	5.1
Benzo(b)fluoranthene	19	5.1
Benzo(k)fluoranthene	13	5.1
Benzo(a)pyrene	25	5.1
Indeno(1,2,3-cd)pyrene	16	5.1
Dibenz(a,h)anthracene	ND	5.1
Benzo(g,h,i)perylene	25	5.1

Surrogate	%REC	Limits
Nitrobenzene-d5	79	33-151
2-Fluorobiphenyl	60	34-126
Terphenyl-d14	69	42-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
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Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	2626008	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC327124	Batch#:	110224
Matrix:	Soil	Prepared:	02/07/06
Units:	ug/Kg	Analyzed:	02/07/06
Basis:	as received		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	82	33-151
2-Fluorobiphenyl	71	34-126
Terphenyl-d14	83	42-135

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	2626008	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC327125	Batch#:	110224
Matrix:	Soil	Prepared:	02/07/06
Units:	ug/Kg	Analyzed:	02/07/06
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.28	24.27	73	49-120
Pyrene	33.28	23.71	71	48-120

Surrogate	%REC	Limits
Nitrobenzene-d5	89	33-151
2-Fluorobiphenyl	74	34-126
Terphenyl-d14	85	42-135

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Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	184729	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3550B
Project#:	2626008	Analysis:	EPA 8270C-SIM
Field ID:	SB20-020206-4.0	Batch#:	110224
MSS Lab ID:	184729-010	Sampled:	02/02/06
Matrix:	Soil	Received:	02/03/06
Units:	ug/Kg	Prepared:	02/07/06
Basis:	as received	Analyzed:	02/07/06
Diln Fac:	1.000		

Type: MS Lab ID: QC327126

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	13.16	33.76	34.20	62	52-125
Pyrene	23.38	33.76	46.77	69	39-135

Surrogate	%REC	Limits
Nitrobenzene-d5	88	33-151
2-Fluorobiphenyl	66	34-126
Terphenyl-d14	88	42-135

Type: MSD Lab ID: QC327127

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.69	40.37	81	52-125	17	35
Pyrene	33.69	63.90	120	39-135	31	44

Surrogate	%REC	Limits
Nitrobenzene-d5	95	33-151
2-Fluorobiphenyl	64	34-126
Terphenyl-d14	85	42-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: [illegible]

Project No.: 2626008

Project Name: Emeryville Mills

Project P.O.:

Turnaround Time:

Sampler: Maryline Laing

Report To:

Company: Malcolm Pirnie

Telephone:

Fax:

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste		# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE		Analysis: TPH G,D,MO 8015	PAHs 8270
-14	SB21-020206-4.0	020206 1425	X				1						X	
-15	SB22-020206-4.5	1500												
-16	SB22-020206-9.5	1500												
-17	SB22-020206-14.0	1505												
-18	SB23-020206-4.5	1555												
-19	SB24-020206-4.5	* 1640												X
-20	SB24-020206-10.0	1645												X
N/A	(crossed out)													
-21	SB23-020206-10.0	** 1550	X										X	

Notes:
* Time on label = 940
** ↓ ↓ ↓ ↓ 1555
Frew
2/3/06

SIGNATURE

SAMPLE RECEIPT
☒ Intact ☒ Cold
☒ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☒ N/A

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
Maryline Laing	02/03/06 925	[signature]	2/3/6 925

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: [illegible]

Sampler: Marylin Languica

Report To: " "

Company: Malcolm Pirnie

Telephone: 510 735 3034

Fax: 510 596 8855

Project No.: 2626008

Project Name: General Mills

Project P.O.:

Turnaround Time:

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	Matrix:	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Preservative:	Analysis: TPH G, D, MO 8015	Analysis: PAHS 8270
-1	SB17-020206-14.5	020206 930	X				1						X	
-2	SB17-020206-4.5	940	X											
-3	SB17-020206-10.0	950												
-4	SB18-020206-10.0	1000												
-5	SB18-020206-4.5	1005												
-6	SB18-020206-9.0	1010												
-7	SB19-020206-4.5	1040												
-8	SB19-020206-6.0	1120												
-9	SB19-020206-20.5	1115												
-10	SB20-020206-4.0	1230												X
-11	SB20-020206-9.0	1240												X
-12	SB20-020206-5.5	1245												X
-13	SB21-020206-15.0	1420												

Notes:

SAMPLE RECEIPT
- [x] Intact
- [x] Cold
- [x] On Ice
- [ ] Ambient

Preservative Correct?
- [ ] Yes
- [ ] No
- [x] N/A

RELINQUISHED BY:	DATE / TIME	RECEIVED BY:	DATE / TIME
Marylin Languica	02/03/06 925	[signature]	2/3/6 925

SIGNATURE

Curtis & Tompkins, Ltd.
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Total Volatile Hydrocarbons

Lab #:	184753	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/03/06
Units:	mg/Kg	Received:	02/06/06
Basis:	as received	Analyzed:	02/06/06
Batch#:	110181		

Field ID: MP-7-020306-3.5 Lab ID: 184753-001
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	59-140
Bromofluorobenzene (FID)	99	62-149

Field ID: MP-7-020306-13.0 Lab ID: 184753-002
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	94	59-140
Bromofluorobenzene (FID)	96	62-149

Field ID: MP-8-020306-2.5 Lab ID: 184753-003
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	59-140
Bromofluorobenzene (FID)	93	62-149

Field ID: MP-8-020306-13.5 Lab ID: 184753-004
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	59-140
Bromofluorobenzene (FID)	88	62-149

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Volatile Hydrocarbons

Lab #:	184753	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/03/06
Units:	mg/Kg	Received:	02/06/06
Basis:	as received	Analyzed:	02/06/06
Batch#:	110181		

Field ID: MP-6-020306-7.0 Lab ID: 184753-005
Type: SAMPLE Diln Fac: 20.00

Analyte	Result	RL
Gasoline C7-C12	190	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	59-140
Bromofluorobenzene (FID)	120	62-149

Field ID: MP-6-020306-5.0 Lab ID: 184753-006
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	59-140
Bromofluorobenzene (FID)	91	62-149

Field ID: MP-6-020306-13.5 Lab ID: 184753-007
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	1.3 H Y	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	87	59-140
Bromofluorobenzene (FID)	95	62-149

Type: BLANK Diln Fac: 1.000
Lab ID: QC326928

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	59-140
Bromofluorobenzene (FID)	93	62-149

H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184753	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC326930	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110181
Units:	mg/Kg	Analyzed:	02/06/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	10.05	100	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	102	59-140
Bromofluorobenzene (FID)	96	62-149

Curtis & Tompkins, Ltd.
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Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184753	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	MP-7-020306-3.5	Diln Fac:	1.000
MSS Lab ID:	184753-001	Batch#:	110181
Matrix:	Soil	Sampled:	02/03/06
Units:	mg/Kg	Received:	02/06/06
Basis:	as received	Analyzed:	02/07/06

Type: MS Lab ID: QC327030

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1691	10.20	7.464	71	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	100	59-140
Bromofluorobenzene (FID)	89	62-149

Type: MSD Lab ID: QC327031

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.804	7.111	71	44-120	1	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	105	59-140
Bromofluorobenzene (FID)	95	62-149

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184753	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/03/06
Units:	mg/Kg	Received:	02/06/06
Basis:	as received	Prepared:	02/06/06
Batch#:	110209		

Field ID: MP-7-020306-3.5
Type: SAMPLE
Lab ID: 184753-001
Diln Fac: 5.000
Analyzed: 02/09/06

Analyte	Result	RL
Diesel C10-C24	28 H Y	5.0
Motor Oil C24-C36	250	25

Surrogate	%REC	Limits
Hexacosane	92	48-132

Field ID: MP-7-020306-13.0
Type: SAMPLE
Lab ID: 184753-002
Diln Fac: 10.00
Analyzed: 02/09/06

Analyte	Result	RL
Diesel C10-C24	450 H Y	10
Motor Oil C24-C36	2,100 H	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID: MP-8-020306-2.5
Type: SAMPLE
Lab ID: 184753-003
Diln Fac: 1.000
Analyzed: 02/09/06

Analyte	Result	RL
Diesel C10-C24	19 H Y	1.0
Motor Oil C24-C36	170	5.0

Surrogate	%REC	Limits
Hexacosane	83	48-132

Field ID: MP-8-020306-13.5
Type: SAMPLE
Lab ID: 184753-004
Diln Fac: 1.000
Analyzed: 02/08/06

Analyte	Result	RL
Diesel C10-C24	2.8 H Y	1.0
Motor Oil C24-C36	6.8	5.0

Surrogate	%REC	Limits
Hexacosane	68	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

5.0

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Total Extractable Hydrocarbons

Lab #:	184753	Location:	General Mills
Client:	Malcolm Pirnie, Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	02/03/06
Units:	mg/Kg	Received:	02/06/06
Basis:	as received	Prepared:	02/06/06
Batch#:	110209		

Field ID: MP-6-020306-7.0 Diln Fac: 10.00
Type: SAMPLE Analyzed: 02/09/06
Lab ID: 184753-005

Analyte	Result	RL
Diesel C10-C24	3,200	10
Motor Oil C24-C36	170 L Y	50

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID: MP-6-020306-5.0 Diln Fac: 20.00
Type: SAMPLE Analyzed: 02/09/06
Lab ID: 184753-006

Analyte	Result	RL
Diesel C10-C24	1,600 H Y	20
Motor Oil C24-C36	4,000 H L	99

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Field ID: MP-6-020306-13.5 Diln Fac: 20.00
Type: SAMPLE Analyzed: 02/09/06
Lab ID: 184753-007

Analyte	Result	RL
Diesel C10-C24	720 H Y	20
Motor Oil C24-C36	1,500 H L	100

Surrogate	%REC	Limits
Hexacosane	DO	48-132

Type: BLANK Analyzed: 02/07/06
Lab ID: QC327065 Cleanup Method: EPA 3630C
Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
Hexacosane	113	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184753	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC327066	Batch#:	110209
Matrix:	Soil	Prepared:	02/06/06
Units:	mg/Kg	Analyzed:	02/07/06
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.70	58.01	117	54-137

Surrogate	%REC	Limits
Hexacosane	112	48-132

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Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184753	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	110209
MSS Lab ID:	184697-004	Sampled:	02/01/06
Matrix:	Soil	Received:	02/02/06
Units:	mg/Kg	Prepared:	02/06/06
Basis:	as received	Analyzed:	02/08/06
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC327067

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	424.5	50.12	377.0	-95 NM	28-163

Surrogate	%REC	Limits
Hexacosane	5 *	48-132

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC327068

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.17	388.6	-72 NM	28-163	3	46

Surrogate	%REC	Limits
Hexacosane	7 *	48-132

*= Value outside of QC limits; see narrative
NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 184753

Sampler: Maryline Laugier

Project No.: 262.003

Report To:

Project Name: General Mills

Company: Malcolm Pirnie

Project P.O.:

Telephone:

Turnaround Time:

Fax:

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	Analysis: TPHG, D, 8015
-1	MP-7-020306 3.5	020306 830	X			1					X
N/A	~~MP-7-020306 13.0~~	~~" 930~~	~~X~~			~~1~~					~~X~~
-2	MP-7-020306 13.0	020306 930	X			1					X
-3	MP-8-020306-2.5	" 1140	X			1					X
-4	MP-8-020306-13.5	" 1200	X			1					X
-5	MP-6-020306-7.0 *	" 1440	X			1					X
-6	MP-6-020306-5.0 **	" 1445	X			1					X
-7	MP-6-020306-12.5	" 1500	X			1					X

Notes:
* Label = MP-6-030206-7.0
** " " MP-6-030206-5.0

SAMPLE RECEIPT
☒ Intact ☒ Cold
☒ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☒ N/A

RELINQUISHED BY:
Maryline Laugier 040606 9:18 DATE / TIME
DATE / TIME
DATE / TIME

RECEIVED BY:
2/6/06 9:18 DATE / TIME
DATE / TIME
DATE / TIME

SIGNATURE

Curtis & Tompkins, Ltd.
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Total Volatile Hydrocarbons

Lab #:	184897	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	SB15-020106-6.5	Batch#:	110400
Matrix:	Soil	Sampled:	02/01/06
Units:	mg/Kg	Received:	02/02/06
Basis:	as received	Analyzed:	02/13/06
Diln Fac:	1.000		

Type: SAMPLE Lab ID: 184897-001

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-140
Bromofluorobenzene (FID)	106	62-149

Type: BLANK Lab ID: QC327836

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Trifluorotoluene (FID)	92	59-140
Bromofluorobenzene (FID)	103	62-149

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184897	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC327838	Diln Fac:	1.000
Matrix:	Soil	Batch#:	110400
Units:	mg/Kg	Analyzed:	02/13/06

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	10.00	9.984	100	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	115	59-140
Bromofluorobenzene (FID)	117	62-149

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	184897	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	SB15-020106-6.5	Diln Fac:	1.000
MSS Lab ID:	184897-001	Batch#:	110400
Matrix:	Soil	Sampled:	02/01/06
Units:	mg/Kg	Received:	02/02/06
Basis:	as received	Analyzed:	02/13/06

Type: MS Lab ID: QC327923

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.6188	10.42	8.595	77	44-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	59-140
Bromofluorobenzene (FID)	116	62-149

Type: MSD Lab ID: QC327924

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.75	8.482	73	44-120	4	23

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	59-140
Bromofluorobenzene (FID)	110	62-149

RPD= Relative Percent Difference

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Total Extractable Hydrocarbons

Lab #:	184897	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Field ID:	SB15-020106-6.5	Batch#:	110410
Matrix:	Soil	Sampled:	02/01/06
Units:	mg/Kg	Received:	02/02/06
Basis:	as received	Prepared:	02/13/06
Diln Fac:	1.000	Analyzed:	02/14/06

Type: SAMPLE Lab ID: 184897-001

Analyte	Result	RL
Diesel C10-C24	410 H q	1.0
Motor Oil C24-C36	22 L Y q	5.0

Surrogate	%REC	Limits
Hexacosane	82 q	48-132

Type: BLANK Cleanup Method: EPA 3630C
Lab ID: QC327876

Analyte	Result	RL
Diesel C10-C24	ND q	1.0
Motor Oil C24-C36	ND q	5.0

Surrogate	%REC	Limits
Hexacosane	111 q	48-132

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
q= Draft result - ending instrument QC not yet analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184897	Location:	General Mills
Client:	Malcolm Pirnie,Inc.	Prep:	SHAKER TABLE
Project#:	2626008	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC327877	Batch#:	110410
Matrix:	Soil	Prepared:	02/13/06
Units:	mg/Kg	Analyzed:	02/14/06
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.44	59.08 q	117	54-137

Surrogate	%REC	Limits
Hexacosane	122 q	48-132

q= Draft result - ending instrument QC not yet analyzed

APPENDIX I

Field Activity Reports and Water Level Datatsheets

Environmental
Sampling Services

January 31, 2006

Mr. Todd Miller
Malcolm Pirnie, Inc.
2000 Powell Street, Suite 1180
Emeryville, California 94608

SUBJECT: January 2006 Groundwater Monitoring Event at Former General Mills Site in Vallejo, California

Dear Mr. Miller,

Please find enclosed a Field Activity Report for the groundwater monitoring event at the Former General Mills site that occurred on January 12, 2006. This Field Activity Report contains all documentation associated with this event.

If you have any questions or concerns regarding this Field Activity Report, please do not hesitate to call me.

Sincerely,

Stephen Penman
Owner/Partner

Enclosure

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Environmental
Sampling Services

FIELD ACTIVITY REPORT
FOR

FORMER GENERAL MILLS SITE
VALLEJO, CALIFORNIA

GROUNDWATER MONITORING EVENT
JANUARY 2006

Task: January 2006 Groundwater Monitoring and Sampling Event
ESS Personnel: Stephen Penman

Decontamination Procedures

All downhole equipment was cleaned with Liqui-Nox® laboratory grade soap, potable water, and rinsed with distilled water prior to use.

Groundwater Level and Well Depth Measurements

January 12, 2006, depth to groundwater and well depth were measured and recorded for five monitoring wells (MP-1, MP-2, MP-3, MP-4, and MP-5). Each well was allowed to equilibrate to atmospheric pressure for approximately twenty minutes. All readings were performed with a Solinst® Oil /Water Interface Meter. Three successive readings that agreed to within one-hundredth of a foot determined depth to groundwater (Table 1). Depths to groundwater were referenced to the north rim of the well casing.

No product or odor was detected at any of the five monitoring wells onsite.

Organic vapor readings were not requested.

Field Equipment Calibration

The multi-parameter instrument with an in-line flow through chamber was used to monitor water quality parameters throughout well purging. The instrument was calibrated with solution standards prior any monitoring activities (see Daily Equipment Calibration Sheet). Field measurements included: pH, Specific Conductance (uS), Temperature (Celsius), Dissolved Oxygen (mg/L), Oxidation/Reduction Potential (mV), Turbidity (NTUs) and physical characteristics such as pumping water level, color, and odor (see Water Quality Sample Log Sheets).

Well Purging and Sampling Procedures

All five monitoring wells were purged and sampled via low-flow purging; whereby, the well is purged at a rate no greater than 500-ml per minute until water quality parameters stabilized within 10% for three consecutive readings. Samples were collected immediately following stabilization of water quality parameters by disconnecting the tubing from the flow through chamber.

Sample labels were completed with waterproof ink and affixed to sample containers prior to sample collection.

All sample containers were wiped dry, sealed in Ziploc bags and placed in chilled coolers for storage and shipment. Samples were relinquished to Severn Trent Laboratory (STL) of Pleasanton, California on January 13, 2006.

Sample Containers and Analyses

STL provided all sample containers. All monitoring wells were sampled for a combination of following analyses: VOCs TPH-gas w/BTEX (EPA Method 8015/8021). TPH-Diesel, and Motor Oil (EPA Method 8015M), and PNAs (EPA 8270)

STL Sample Containers

Each VOC sample set was contained in three, 40-ml clear VOA containers preserved with hydrochloric acid.

Each TPH-Diesel and Motor Oil sample was contained in one, non-preserved, one-liter amber glass container.

Each PNA sample was contained in two, non-preserved, one-liter amber glass containers.

QA/QC

One Trip Blank set was submitted to STL for EPA Method 8260B analysis.

As per requested, one duplicate sample was collected during this sampling event. The duplicate is identified with its well identification followed by the suffix, "DUP" and was collected from monitoring well MW-1.

Chain of Custody (COC) Forms

All sampling and sample handling were conducted under strict chain of custody procedures. Each COC included: sampler's name and signature, sample identification, sample date and time, type and number of bottles submitted, and analysis request section.

Storage of Purged Groundwater and Decontamination Water

Purged groundwater and decontamination water generated during this sampling event was transferred into a new labeled 55-gallon steel drum supplied by ESS. The drum is stored adjacent to monitoring well MP-1, by the existing drums left onsite from well installation and development.

Comments

The monitoring wells are not secured with locks.

There is approximately thirteen gallons of waste water contained in the labeled 55-gallon drum.

Environmental
Sampling Services

Stephen Penman
Owner/Partner

Enclosure
Table 1: Summary of Groundwater Sample Date and Time
Water Sample Log Sheets
Equipment Calibration Sheet
Copies of Chain of Custodies

Environmental Sampling Services

Table 1: Summary of January 2006 Groundwater Monitoring Event
Project Name: Former General Mills Site
Project Address: 800 Derr Avenue, Vallejo, California

Well I.D.	Date of Measurement	Time of Measurement	Depth to Product (ft.)	Groundwater Level Measurement (ft, BTOC.)	Measured Well Depth (feet, BTOC)	Sample Date	Sample Time	QA/QC	Comments
MP-1	1/12/2006	11:17	ND	3.97	15.37	01/12/06	17:18	Duplicate	No lock.
MP-2	1/12/2006	11:08	ND	4.10	15.41	01/12/06	14:47	None	No lock.
MP-3	1/12/2006	11:13	ND	4.35	15.36	01/12/06	16:35	None	No lock.
MP-4	1/12/2006	11:04	ND	3.82	15.36	01/12/06	13:42	None	No lock.
MP-5	1/12/2006	11:10	ND	5.91	15.23	01/12/06	15:54	None	No lock.

BTOC = Below Top of Casing
ND = Not Detected

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-1 DATE 1/12/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: STL San Francisco Weather Conditions: Mostly Sunny + Cool, Breezy

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 10.37 ft.(BTOC) Screen Interval: ____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: ____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 3.97e 11:17 Water Level Prior To Sampling: 4.13

TD = 15.37 - 3.97 (DTW) = 11.4 (ft.of water) x "K" = 1.9 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
1/12/06	16:58	Initial	7.14	18.30	5665	62.2	-145.3	2.11	4.07	Cloudy Grey Brn.
↓	17:00	0.5	7.00	18.71	5116	40.1	-179.3	0.53	4.10	"
	17:02	1.0	6.96	18.63	4868	34.6	-189.4	0.43	4.11	Cloudy Grey
	17:05	1.5	6.92	18.49	4757	30.1	-198.8	0.36	4.13	"
	17:08	2.0	6.90	18.36	4723	28.4	-204.8	0.35	4.13	Slightly Cloudy
	17:11	2.5	6.89	18.30	4704	26.7	-209.0	0.33	4.13	"
	17:14	3.0	6.87	18.29	4671	26.0	-209.8	0.31	4.13	"
↓	17:17	3.5	6.87	18.26	4646	26.3	-211.2	0.29	4.13	"
		4.0								

Total Discharge: 3.9 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 1/12/06 @ 17:18 Analysis: TPHgas & BTEX (8015/8021); TPH-diesel and TPH-Motor Oil; PNA's (8270) Preservative(s): HCl Total number of sample containers: 12

QA/QC: MP-1-Dup @ 17:18 as an Equipment Blank (Duplicate) MS/MSD Lab Split Field Blank

Comments: No measurable Product in well

Sampled by: (Stephen Penman) / Jacki Lee Recorded by: [signature]

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www.envsampling.com

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-2 DATE 1/12/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: STL San Francisco Weather Conditions: Mostly sunny + cool

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) / No Bolt Size: 9/16" Type of lock / Lock number: No Lock

Observations / Comments: set pump intake @ 10.41 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 4.10 @ 11:08 Water Level Prior To Sampling: 4.26

TD = 15.41 - 4.05 @ N:B (DTW) = 11.36 (ft.of water) x "K" = 1.9 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
1/12/06	14:14	Initial	7.92	20.13	1621	8.0	16.1	1.90	4.27	clear
	14:18	0.5	7.95	20.39	1542	6.1	19.0	1.48	4.25	"
	14:22	1.0	7.94	19.86	1514	1.5	22.0	1.26	4.26	"
	14:26	1.5	7.96	20.09	1512	1.5	20.2	1.14	4.26	"
	14:30	2.0	7.97	20.18	1509	1.8	19.4	1.06	4.26	"
	14:34	2.5	7.97	20.31	1496	1.7	18.6	1.01	4.26	"
	14:38	3.0	7.98	20.22	1503	1.8	17.8	0.94	4.26	"
	14:42	3.5	7.98	20.00	1485	1.6	20.5	1.00	4.26	"
↓	14:46	4.0	7.99	20.04	1417	1.4	21.2	1.06	4.26	"

Total Discharge: 4.4 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 1/12/06 @ 14:47 Analysis: TPHgas & BTEX (8015/8021); TPH-diesel and TPH-Motor Oil; PNA's (8270)

Preservative(s): HCl Total number of sample containers: 6

QA/QC: ——— @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled by (Stephen Penman) / Jacki Lee Recorded by: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-3 DATE 1/12/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: STL San Francisco Weather Conditions: Mostly Sunny, Cool + Breezy

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) / No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 10.36 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) 208541R Multiparameter Probe Serial No.: (00K0300) 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 4.35 @ 11:13 Water Level Prior To Sampling: 4.40

TD = 15.36 - 4.35 (DTW) = 11.01 (ft.of water) x "K" = 1.8 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
1/12/06	16:20	Initial	7.46	19.50	1585	14.6	-147.9	0.88	4.40	Clear
	16:22	0.5	7.52	19.64	1587	18.3	-164.6	0.55	4.40	"
	16:24	1.0	7.59	19.69	1582	15.7	-172.6	0.45	4.40	"
	16:26	1.5	7.60	19.73	1581	13.3	-175.4	0.38	4.40	"
	16:28	2.0	7.61	19.69	1585	12.3	-177.6	0.34	4.40	"
	16:30	2.5	7.62	19.67	1578	11.5	-179.5	0.30	4.40	"
	16:32	3.0	7.62	19.66	1575	11.7	-179.5	0.30	4.40	"
	16:34	3.5	7.62	19.64	1572	11.7	-179.3	0.29	4.40	"
		4.0								

Total Discharge: 3.9 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 1/12/06 @ 16:35 Analysis: TPHgas & BTEX (8015/8021); TPH-diesel and TPH-Motor Oil; PNA's (8270)

Preservative(s): HCl Total number of sample containers: 6

QA/QC: _____ @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled by: (Stephen Penman) / Jacki Lee Recorded by: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-4 DATE 1/12/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: STL San Francisco Weather Conditions: Mostly Sunny + Cool

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? Yes / No Bolt Size: 9/16" Type of lock / Lock number: No Lock

Observations / Comments: set pump intake @ 10.36 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA (New) / Cleaned / Dedicated Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 3.82 @ 11:04 Water Level Prior To Sampling: 3.82

TD = 15.36 - 3.82 (DTW) = 11.54 (ft.of water) x "K" = 1.9 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
1/12/06	13:25	Initial	6.77	18.95	1068	2.9	42.5	2.84	3.82	clear
	13:27	0.5	6.87	19.03	1057	1.4	19.8	0.72	3.82	"
	13:29	1.0	6.99	18.97	1050	1.0	0.2	0.45	3.82	"
	13:31	1.5	7.09	18.93	1039	0.7	-20.1	0.38	3.82	"
	13:33	2.0	7.17	18.86	1033	0.6	-26.0	0.40	3.82	"
	13:35	2.5	7.24	18.74	1026	0.4	-30.6	0.39	3.82	"
	13:37	3.0	7.33	18.78	1023	0.4	-41.1	0.35	3.82	"
	13:39	3.5	7.34	18.81	1022	0.4	-43.1	0.34	3.82	"
↓	13:41	4.0	7.34	18.82	1023	0.6	-44.4	0.33	3.82	"

Total Discharge: 4.4 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 1/12/06 @ 13:42 Analysis: TPHgas & BTEX (8015/8021); TPH-diesel and TPH-Motor Oil; PNA's (8270) Preservative(s): HCl Total number of sample containers: 6

QA/QC: ——— @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled by: (Stephen Penman) / Jacki Lee Recorded by: [signature]

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-5 DATE 1/12/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: STL San Francisco Weather Conditions: Mostly Sunny & Cool

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: No Lock

Observations / Comments: set pump intake @ 10.23 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA (New) / Cleaned (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 5.91 @ 11:10 Water Level Prior To Sampling: 5.93

TD = 15.23 - 5.91 (DTW) = 9.32 (ft.of water) x "K" = 1.5 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
1/12/06	15:37	Initial	8.04	18.92	1327	5.5	29.3	2.88	5.93	Clear
	15:39	0.5	7.42	18.80	1287	4.7	49.2	2.03	5.93	"
	15:41	1.0	7.34	18.75	1270	2.1	51.1	1.90	5.93	"
	15:43	1.5	7.28	18.61	1252	2.0	54.1	1.90	5.93	"
	15:45	2.0	7.27	18.69	1235	1.8	56.3	1.90	5.93	"
	15:47	2.5	7.26	18.55	1226	1.6	57.1	1.90	5.93	"
	15:49	3.0	7.23	18.46	1216	1.3	58.3	1.87	5.93	"
	15:51	3.5	7.21	18.43	1206	1.7	59.1	1.88	5.93	"
↓	15:53	4.0	7.19	18.36	1200	1.5	59.9	1.86	5.93	"

Total Discharge: 4.4 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 1/12/06 @ 15:54 Analysis: TPHgas & BTEX (8015/8021); TPH-diesel and TPH-Motor Oil; PNA's (8270) Preservative(s): HCl Total number of sample containers: 6

QA/QC: — @ — as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Sampled by: (Stephen Penman) / Jacki Lee Recorded by: [signature]

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SITE NAME: Former General Mills Site
SITE LOCATION: 800 Derr Avenue, Vallejo, CA
TASK: January 2006 Monitoring Well Sampling Event

DAILY EQUIPMENT CALIBRATION SHEET

DATE	TIME	Instrument Serial Number	Probe Serial Number	Dissolved Oxygen (%)	pH			Specific Conductance 1,000 or 10,000 uS/cm	ORP 237 mV	TURBIDITY 0.02/0.0 NTU
					4	7	10			
1/12/06	11:20	319340R	00E0708AB	100.2	4.00	6.99	10.01	1,000	236.9	0.0

SEVERN TRENT **STL**

STL San Francisco Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756
Phone: (925) 484-1919 ● Fax: (925) 484-1096
Email: info@chromalab.com

Reference #: _____

Date 01/12/06 Page 1 of 1

Report To

Attn: Maryline Lavigier
Company: Malcolm Pirnie, Inc.
Address: 2000 Powell Street, Suite 1180 Emeryville CA 94608
Phone: (510) 735-3034 Email: Mlavigier@Pirnie.com
Bill To: Malcolm Pirnie Inc. Sampled By: ESS
White Plains, NY Stephen Penman
Attn: Accts. Payable Phone: 925 460-7998

Analysis Request

Sample ID	Date	Time	Matrix	Preservative	TPH EPA - 8015/8021 ☐ 8260B ☒ Gas w/ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel ☒ Diesel (Motor Oil ☐ Other ___	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664)	Pesticides PCBs	Pesticides ☐ EPA 8081 ☐ 608 ☐ EPA 8082 ☐ 608	PNAs by ☒ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other: ___	W.E.T.(STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4
Trip Blank	1/12/06		Water	HCl	X																
MP-4	1/12/06	14:32	Water	HCl	X		X								X						
MP-2	1/12/06	14:47	Water	HCl	X		X								X						
MP-5	1/12/06	15:54	Water	HCl	X		X								X						
MP-3	1/12/06	16:35	Water	HCl	X		X								X						
MP-1	1/12/06	17:18	Water	HCl	X		X								X						
MP-1-Dup	1/12/06	17:18	Water	HCl	X		X								X						

Project Info.

Project Name: Former General Mills Site
Project#: 26026-008
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp:
Conforms to record:

TAT: 5 Day | 72h | 48h | 24h | Other:

Report ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID _____
Special Instructions / Comments:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature Time	Signature Time	Signature Time
Stephen Penman 1/13/06		
Printed Name Date	Printed Name Date	Printed Name Date
Environmental Sampling Services		
Company	Company	Company

1) Received by:	2) Received by:	3) Received by:
Signature Time	Signature Time	Signature Time
Printed Name Date	Printed Name Date	Printed Name Date
Company	Company	Company

Rev 0

Environmental
Sampling Services

February 14, 2006

Ms. Maryline Laugier
Malcolm Pirnie, Inc.
2000 Powell Street, Suite 1180
Emeryville, California 94608

SUBJECT: February 2006 Monthly Groundwater Monitoring & Sampling Event at Former General Mills Site, Vallejo, California

Dear Ms. Laugier,

Please find enclosed a Field Activity Report for the monthly monitoring and sampling event that occurred February 9 and 10, 2006. This Field Activity Report contains all pertinent documentation associated with this task.

If you have any questions or concerns regarding this Field Activity Report, please do not hesitate to call me.

Sincerely,

Jacqueline Lee
Partner

Enclosure

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FIELD ACTIVITY REPORT
FOR

FORMER GENERAL MILLS
SITE
VALLEJO, CALIFORNIA

MONTHLY GROUNDWATER MONITORING EVENT
FEBRUARY 2006

Task: Monthly Groundwater Monitoring and Sampling Event
ESS Personnel: Stephen Penman
Date(s) of Activities: February 9 and 10, 2006

Decontamination Procedures

All downhole equipment was cleaned with Liqui-Nox® laboratory grade soap, potable water, and rinsed with distilled water prior to use and between each monitoring well.

Groundwater Measurements

Depths to groundwater were measured and recorded for eight monitoring wells (MP-1 through MP-8). All readings were performed with a Solinst® Water Level Meter. Each monitoring well was allowed to equilibrate to atmospheric pressure for approximately twenty minutes. Three successive readings that agreed to within one-hundredth of a foot determined depth to groundwater (Table 1). All measurements were referenced to the surveyor's mark or at the north rim of the well casing.

Organic vapor readings were not requested.

Field Equipment Calibration

A multi-parameter instrument with an in-line flow through chamber was used to monitor water quality parameters during well purging. The instrument was calibrated with solution standards prior to any well purging (see Daily Equipment Calibration Sheet).

Field Measurements

Field measurements included: pH, Specific Conductance (uS), Temperature (Celsius), Dissolved Oxygen (mg/L), Oxidation/Reduction Potential (mV), Turbidity (NTUs) and physical characteristics such as pumping water level, color, and odor (see Water Quality Sample Log Sheets).

Well Purging and Sampling Procedures

A peristaltic pump was used for low-flow purging and sampling whereby, the well is purged at a rate no greater than 500-ml per minute until water quality parameters stabilized within 10% for three consecutive readings. Each monitoring well was purged and sampled with new or dedicated tubing. Samples were collected immediately following stabilization of water quality parameters by disconnecting the tube from the flow through chamber.

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Chemical Analyses

Curtis & Tompkins, Ltd. of Berkeley, California, provided all sample containers. All monitoring wells were sampled for a combination of following analyses: TPH-Gasoline; Benzene Toluene Ethylene Xylene (BTEX); EDC/EDB (EPA 8015/8021); TPH-Diesel, TPH-Motor Oil (EPA 8015M); Poly Nuclear Aromatics, PNAs (EPA 8270); Total Dissolved Solids (TDS), and Total Lead.

Sample Containers

The TPH-Gasoline, BTEX, and/or EDC/EDB sample set was contained in three, 40-ml amber VOA containers preserved with hydrochloric acid.

Each TPH-Diesel, and/or Motor Oil sample was contained in a non-preserved, one-liter amber glass container.

Each PNA sample was contained in a non-preserved, one-liter amber glass container.

Each TDS sample was contained in a non-preserved 250-ml, plastic container.

Each Lead sample was contained in a 500-ml plastic container preserved with nitric acid.

Sample Handling

Sample labels were completed with waterproof ink and affixed to sample containers prior to sample collection.

During decanting, all 40-ml VOA sample containers were slightly tilted to avoid aeration or degassing. Each container was filled until there was a meniscus at the top. After capping, the container was inverted and tapped lightly to check for air bubbles. The absence of air bubbles indicated a successful seal.

All other sample containers were filled to capacity. Preserved containers were not overfilled.

All sample containers were wiped dry, sealed in Ziploc® bags and placed in chilled coolers for storage and shipment. Samples were relinquished to Curtis & Tompkins February 10, 2006.

QA/QC

One Trip Blank set was supplied and submitted for analysis.

One duplicate sample was collected from monitoring well MW-7 and labeled "MW-7-DUP @10:28".

No other QA/QC samples were requested.

Chain of Custody (COC) Forms

All sampling and sample handling were conducted under strict chain of custody procedures. The COC included: sampler's name and signature, sample identification, sample date and time, type and number of bottles submitted, and analysis request section.

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Storage of Purged Groundwater and Decontamination Water

Approximately 17 gallons of purged groundwater and decontamination water generated during this sampling event were transferred into an existing, labeled 55-gallon steel drum previously used by the drillers.

Comments

All eight monitoring wells need locks.

Jacqueline Lee
Partner

Enclosure
Table 1: Summary of Groundwater Sample Date and Time
Water Sample Log Sheets
Equipment Calibration Sheet
Copy of Chain of Custody

Environmental Sampling Services

TABLE 1: Summary of February 2006 Monthly Groundwater Monitoring Event
SITE NAME: Former General Mills Site
SITE LOCATION: 800 Derr Street, Vallejo, California

Well ID	Date of Measurement	Time of Measurement	Depth to Groundwater (Ft., TOC)	Well Depth (Ft., TOC)	Sample Date	Sample Time	QA/QC Type	QA/QC Identification
MP-1	2/9/2006	11:57	4.47	15.37	2/10/2006	13:48	None	NA
MP-2	2/9/2006	11:36	4.88	15.41	2/9/2006	15:31	None	NA
MP-3	2/9/2006	11:54	5.05	14.14	2/10/2006	13:02	None	NA
MP-4	2/9/2006	11:33	4.30	15.36	2/9/2006	14:18	None	NA
MP-5	2/9/2006	11:44	6.40	15.23	2/9/2006	17:06	None	NA
MP-6	2/9/2006	11:51	5.11	14.37	2/10/2006	11:58	None	NA
MP-7	2/9/2006	11:47	4.94	14.16	2/10/2006	10:28	Duplicate	MW-7-DUP
MP-8	2/9/2006	11:38	5.42	13.75	2/9/2006	16:18	None	NA

TOC= Top of Well Casing
NA= Not Applicable

Environmental Sampling Services

WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-1 DATE 2/10/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: Curtis & Tompkins - Berkeley, CA Weather Conditions: Clear, breezy + Warm

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 11.37 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA New / Cleaned (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No: (319340R) / 208541R Multiparameter Probe Serial No: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 4.51 Water Level Prior To Sampling: 4.69

TD = 15.37 - 4.51 (DTW) = 10.86 (ft.of water) x "K" = 1.77 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
2/10/06	13:26	Initial	7.31	19.09	4135	7.2	-202.8	0.88	4.65	Clear
	13:30	0.5	7.05	18.98	4095	35.7	-260.3	0.05	4.72	Cloudy/Dk. Gray
	13:32	1.0	7.02	18.97	4104	31.7	-278.3	0.03	4.70	"
	13:34	1.5	7.01	19.05	4118	31.5	-285.4	0.02	4.69	"
	13:37	2.0	7.01	19.05	4128	29.5	-296.7	0.02	4.69	Cloudy Lt. Gray
	13:40	2.5	7.01	19.05	4113	27.9	-308.2	0.04	4.69	"
	13:43	3.0	7.01	19.10	4084	26.5	-318.9	0.04	4.69	"
↓	13:47	3.5	7.00	19.03	4142	25.6	-338.0	0.04	4.69	"
		4.0								

Total Discharge: 3.9 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 2/10/06 @ 13:48 Analysis: TPHgas & BTEX (8015/8021); TPH-Diesel and TPH-Motor Oil; PNA's (8270); and TDS. Preservatives: HCl Total number of sample containers: 6

QA/QC: None @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: Well had an H_2S odor

Recorded by: (Stephen Penman) / Jacki Lee Signature:

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-2 DATE 2/9/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: Curtis & Tompkins - Berkeley, CA Weather Conditions: Clear, breezy + Warm

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) / No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 11.41 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA New / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 4.88 Water Level Prior To Sampling: 5.02

TD = 15.41 - 4.88 (DTW) = 10.53 (ft.of water) x "K" = 1.7 (Gals./CV) x NA (No. of CV) = NA (Gals)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
2/9/06	14:41	Initial	7.90	19.92	2493	9.7	32.4	1.78	5.05	Clear
	14:46	0.5	8.11	19.76	2403	8.8	60.7	9.44 Recal. brate	5.09	"
	14:55	1.0	8.14	20.38	2387	7.3	74.4	1.50	5.00	"
	15:01	1.5	8.14	19.94	2360	7.2	65.1	0.91	5.01	"
	15:06	2.0	8.15	19.85	2358	6.8	59.5	0.65	5.02	"
	15:12	2.5	8.16	19.84	2340	6.2	53.1	0.57	5.02	"
	15:18	3.0	8.17	19.91	2325	6.0	48.8	0.53	5.02	"
	15:24	3.5	8.17	19.90	2312	5.8	47.5	0.52	5.02	"
↓	15:30	4.0	8.18	19.88	2302	5.8	47.0	0.50	5.02	"

Total Discharge: 4.4 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 2/9/06 @ 15:31 Analysis: TPHgas & BTEX (8015/8021); TPH-diesel and TPH-Motor Oil; and TDS. Preservative(s): HCl Total number of sample containers: 5

QA/QC: None @ ——→ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: Pump is set @ slowest speed

14:47 Recalibrated Diss. Oxygen (New membrane) 100%

Recorded by: (Stephen Penman) / Jacki Lee Signature:

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-3 DATE 2/10/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: Curtis & Tompkins - Berkeley, CA Weather Conditions: Clear, breezy + warm

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) No Bolt Size: No Well Monument Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 11.36 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 5.05 Water Level Prior To Sampling: 5.08

TD = 15.36 - 5.05 (DTW) = 10.31 (ft.of water) x "K" = 1.7 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
2/10/06	12:45	Initial	8.14	20.44	1411	5.6	-129.5	0.97	5.07	Clear
	12:47	0.5	7.98	19.73	1396	5.2	-152.4	0.59	5.08	"
	12:49	1.0	7.88	19.61	1398	5.0	-164.0	0.47	5.08	"
	12:51	1.5	7.82	19.60	1398	4.6	-168.6	0.42	5.08	"
	12:53	2.0	7.80	19.62	1393	3.9	-169.0	0.39	5.08	"
	12:55	2.5	7.83	19.67	1388	3.8	-169.9	0.38	5.08	"
	12:57	3.0	7.80	19.71	1388	3.6	-168.6	0.35	5.08	"
	12:59	3.5	7.80	19.70	1389	3.4	-171.8	0.33	5.08	"
↓	13:01	4.0	7.79	19.69	1388	3.4	-172.4	0.32	5.08	"

Total Discharge: 4.4 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 2/10/06 @ 13:02 Analysis: TPHgas & BTEX, EDC, EDB (8015/8021); TPH - Diesel; PNA's (8270); TDS and Lead. Preservative(s): HCl, HNO3 Total number of sample containers: 7

QA/QC: None @ _____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Recorded by: (Stephen Penman) / Jacki Lee Signature: Stephen Penman

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WATER QUALITY SAMPLE LOG SHEET

WELL IDENTIFICATION MP-4 DATE 2/9/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: Curtis & Tompkins - Berkeley, CA Weather Conditions: Clear, breezy & warm

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 11.36 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA New / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 4.30 Water Level Prior To Sampling: 4.31

TD = 15.36 - 4.30 (DTW) = 11.06 (ft.of water) x "K" = 1.8 (Gals /CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (µS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
2/9/06	14:00	Initial	6.69	20.69	1734	4.0	48.0	2.15	4.31	Clear
	14:02	0.5	6.78	20.01	1678	4.0	9.5	0.71	4.31	"
	14:04	1.0	6.95	19.83	1648	3.9	-5.9	0.47	4.31	"
	14:06	1.5	7.07	19.97	1639	4.0	-7.0	0.44	4.31	"
	14:08	2.0	7.20	19.90	1632	3.9	-13.3	0.37	4.31	"
	14:10	2.5	7.29	19.91	1622	3.7	-17.6	0.36	4.31	"
	14:12	3.0	7.36	19.88	1618	3.7	-17.1	0.39	4.31	"
	14:14	3.5	7.42	19.82	1616	3.6	-18.9	0.36	4.31	"
	14:16	4.0	7.44	19.93	1615	3.6	-18.0	0.38	4.31	"

Total Discharge: 4.4 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drums) Poly Tank Treatment System Other: _____

Date/Time Sampled: 2/9/06 @ 14:18 Analysis: TPHgas (8015/8021); TPH-Diesel & TPH-Motor Oil and TDS. Preservative(s): HCl Total number of sample containers: 5

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Recorded by: (Stephen Penman / Jacki Lee Signature: _____

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-5 DATE 2/9/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: Curtis & Tompkins - Berkeley, CA Weather Conditions: Clear, breezy & cool

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) / No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 11.23 ft.(BTOC) Screen Interval: ____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA New / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: ____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 6.40 Water Level Prior To Sampling: 6.42

TD = 15.23 - 6.40 (DTW) = 8.83 (ft.of water) x "K" = 1.4 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
2/9/06	16:51	Initial	8.01	18.35	2057	8.6	64.1	3.54	6.42	Clear
	16:53	0.5	7.47	18.18	1950	8.0	68.3	3.16	6.42	"
	16:55	1.0	7.29	18.11	1895	7.9	68.9	3.20	6.42	"
	16:57	1.5	7.20	18.03	1728	7.3	70.8	3.22	6.42	"
	16:59	2.0	7.10	17.91	1714	7.3	74.0	3.26	6.42	"
	17:01	2.5	7.07	17.93	1717	7.0	74.4	3.27	6.42	"
	17:03	3.0	7.04	17.89	1724	6.8	75.2	3.27	6.42	"
↓	17:05	3.5	7.02	17.91	1726	6.6	75.4	3.31	6.42	"
		4.0								

Total Discharge: 3.9 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/9/06 @ 17:06 Analysis: TPHgas & BTEX, EDC, EDB (8015/8021); TPH-Diesel; TDS and Lead. Preservative(s): HCl, HNO3 Total number of sample containers: 6

QA/QC: None @ ____ as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: ____

Recorded by: (Stephen Penman) / Jacki Lee Signature: Stephen Penman

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-6 DATE 2/10/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: Curtis & Tompkins - Berkeley, CA Weather Conditions: Clear breezy + Cool

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 10.37 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA (New) Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 5.20 Water Level Prior To Sampling: 5.41

TD = 14.37 - 5.20 (DTW) = 9.17 (ft.of water) x "K" = 1.5 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
2/10/06	11:24	Initial	7.25	19.86	2186	4.0	-55.9	0.91	5.39	Clear
	11:28	0.5	7.16	19.83	2155	64.1	-74.3	0.63	5.41	Cloudy Lt. Brn.
	11:32	1.0	7.13	19.93	2139	49.3	-70.8	0.61	5.41	"
	11:37	1.5	7.14	20.18	2117	5.0	-67.0	0.58	5.41	Clear
	11:42	2.0	7.15	20.15	2109	3.0	-65.2	0.57	5.41	"
	11:47	2.5	7.14	20.09	2114	3.1	-56.5	0.53	5.41	"
	11:52	3.0	7.14	20.30	2113	3.0	-59.1	0.49	5.41	"
↓	11:57	3.5	7.14	20.15	2120	2.9	-56.4	0.49	5.41	"
		4.0								

Total Discharge: 3.9 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drums) Poly Tank Treatment System Other: _____

Date/Time Sampled: 2/10/06 @ 11:58 Analysis: TPHgas & BTEX (8015/8021); TPH-Diesel and TPH-Motor Oil; PNA's (8270) and TDS.

Preservatives: HCl Total number of sample containers: 6

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: pump is set at slowest speed.

Recorded by: (Stephen Penman) / Jacki Lee Signature:

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION MP-7 DATE 2/10/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: Curtis & Tompkins - Berkeley, CA Weather Conditions: Clear breezy & cool

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: ____

Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 10.16 ft.(BTOC) Screen Interval: ____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: ____

Pump Lines: NA (New) / Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: ____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: ____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0309) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No.: (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 4.96 Water Level Prior To Sampling: 4.98

TD = 14.16 - 4.96 (DTW) = 9.2 (ft.of water) x "K" = 1.5 (Gals./CV) x NA (No. of CV) = NA (Gals)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (uS)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
2/10/06	10:02	Initial	6.61	17.39	3757	8.5	-144.8	1.85	4.97	clear
	10:12	0.5	6.73	18.16	3937	6.7	-130.4	0.58	4.98	"
	10:14	1.0	6.77	18.50	4420	7.7	-134.7	0.49	4.98	"
	10:16	1.5	6.86	18.65	5235	4.9	-145.3	0.41	4.98	"
	10:18	2.0	6.96	18.68	5413	4.7	-149.9	0.38	4.98	"
	10:20	2.5	7.03	18.78	5563	4.3	-155.7	0.35	4.98	"
	10:22	3.0	7.09	18.78	5599	4.2	-157.2	0.34	4.98	"
	10:24	3.5	7.12	18.74	5614	4.0	-158.1	0.32	4.98	"
	10:26	4.0	7.16	18.79	5637	4.0	-160.8	0.31	4.98	"

Total Discharge: 4.4 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: ____

Date/Time Sampled: 2/10/06 @ 10:28 Analysis: TPHgas & BTEX (8015/8021); TPH-Diesel and TPH-Motor Oil; PNA's (8270) and TDS.

Preservatives: HCl Total number of sample containers: 12

QA/QC: MP-7-DUP @ 10:28 as an Equipment Blank (Duplicate) MS/MSD Lab Split Field Blank

Comments: ____

Recorded by: (Stephen Penman) / Jacki Lee Signature:

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WATER QUALITY SAMPLE LOG SHEET	WELL IDENTIFICATION MP-8 DATE 2/9/06

Project Name: Former General Mills Site Project No.: 2626-008 Project Manager: Todd Miller

Laboratory: Curtis & Tompkins - Berkeley, CA Weather Conditions: Clear breezy & Warm

Well Description: 3/4" 1" (2") 4" 6" Other:____ Well Type: (PVC) Stainless Steel Other: _____

Is Well Secured? (Yes) No Bolt Size: 9/16" Type of lock / Lock number: No lock

Observations / Comments: set pump intake @ 9.75 ft.(BTOC) Screen Interval: _____

Purge Method: Teflon / PE Disposable Bailer Centrifugal Pump (Peristaltic Pump) Other: _____

Pump Lines: NA (New) Cleaned / (Dedicated) Bailer Line: (NA) New / Cleaned / Dedicated

Method of Cleaning Pump: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Method of Cleaning Bailer: (NA) Alconox Liqui-nox Tap Water DI Rinse Other: _____

Sampling Method: Disp. Teflon Bailer Disp. PE Bailer (Peristaltic Pump) Other: _____

YSI 600XL Meter Serial No.: (319340R) / 208541R Multiparameter Probe Serial No.: (00K0300) / 00C1522

Equipment Calibration: See Daily Equipment Calibration Sheet

Method to Measure Water Level: Slope Indicator Serial No. (25083) / 25742 P.I.D. Reading: NA ppm

Water Level at Start (DTW): 6.00 Water Level Prior To Sampling: 6.00

TD = 13.75 - 6.00 (DTW) = 7.75 (ft.of water) x "K" = 1.3 (Gals./CV) x NA (No. of CV) = NA (Gals.)

"K"= 0.002 (3/4" well) "K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.65 (4" well) "k" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Liters)	pH	Temp. (°C)	Specific Conductance mS (S)	Turbidity (NTU's)	Redox (mV)	Dissolved Oxygen (mg/L)	Water Level (BTOC)	Color
2/9/06	16:03	Initial	7.35	17.89	10671	39.8	-106.5	1.93	6.02	cloudy lt. Brn.
	16:05	0.5	7.09	17.45	10885	37.2	-104.7	1.53	6.02	"
	16:07	1.0	7.01	17.45	10881	30.5	-103.8	1.39	6.00	"
	16:09	1.5	6.95	17.48	11215	15.1	-108.4	1.30	6.00	Clear
	16:11	2.0	6.93	17.46	11201	13.3	-107.9	1.23	6.00	"
	16:13	2.5	6.92	17.46	11160	10.6	-107.8	1.16	6.00	"
	16:15	3.0	6.91	17.45	11198	10.2	-108.3	1.10	6.00	"
↓	16:17	3.5	6.90	17.44	11250	9.8	-108.4	1.06	6.00	"
		4.0								

Total Discharge: 3.9 Liters Casing Volumes Removed: NA

Method of disposal of discharged water: (55 Gallon Drum(s)) Poly Tank Treatment System Other: _____

Date/Time Sampled: 2/9/06 @ 16:18 Analysis: TPHgas & BTEX (8015/8021); TPH-Diesel and TPH-Motor Oil; PNA's (8270) and TDS.

Preservatives: HCl Total number of sample containers: 6

QA/QC: None @ ——— as an Equipment Blank Duplicate MS/MSD Lab Split Field Blank

Comments: _____

Recorded by: (Stephen Penman) / Jacki Lee Signature: [signature]

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Environmental Sampling Services

SITE NAME: Former General Mills Site
SITE LOCATION: 800 Derr Avenue, Vallejo, CA
TASK: February 2006 Monitoring Well Sampling Event

DAILY EQUIPMENT CALIBRATION SHEET

DATE	TIME	Instrument Serial Number	Probe Serial Number	Dissolved Oxygen (%)	pH 4	pH 7	pH 10	Specific Conductance 1,000 or 10,000 uS/cm	ORP 237 mV	TURBIDITY 0.02/0.0 NTU
2/9/06	15:00	319340R	00K0300AB	100	3.99	7.00	10.00	1000	237.0	0.0
2/10/06	09:30	319340R	00K0300AB	100	4.00	6.99	10.01	1,000	237.0	0.0

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: _____

Sampler: Stephen Penaman (Env. Sampling Svcs.)
Project No.: 2620-003 Report To: Todd Miller
Project Name: Former Fairmont Mills Site Company: Malcolm Pirnie, Inc.
Project P.O.: Telephone: (510) 596-3080
Turnaround Time: Standard (5 Day) Fax: (510) 596-8868

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	Analysis: TPH-Gas	TPH-Gas/BTEX	TPH-Gas/BTEX/FDCA/EDB	TPH-Diesel	TPH-Diesel + Motor Oil	PNAs (8270)	TDS	Pb
	Trip Blank	2/9/06 14:00		X		2	X			X		X						
	MP-4	2/9/06 14:18		X		5	X			X	X				X		X	
	MP-2	2/9/06 15:31		X		5	X			X		X			X		X	
	MP-8	2/9/06 16:18		X		6	X			X		X			X	X	X	
	MP-5	2/9/06 17:06		X		6	X		X	X		X			X	X	X	
	MP-7	2/10/06 10:28		X		6	X			X		X			X	X	X	
	MP-7-DUP	2/10/06 10:28		X		6	X			X		X			X	X	X	
	MP-6	2/10/06 11:58		X		6	X			X		X			X	X	X	
	MP-3	2/10/06 13:02		X		7	X		X	X		X			X	X	X	
	MP-1	2/10/06 13:48		X		6	X			X		X			X	X	X	

Notes:

SAMPLE RECEIPT
☑ Intact ☑ Cold
☑ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ N/A

RELINQUISHED BY:
2/10/06 15:20 DATE / TIME
DATE / TIME
DATE / TIME

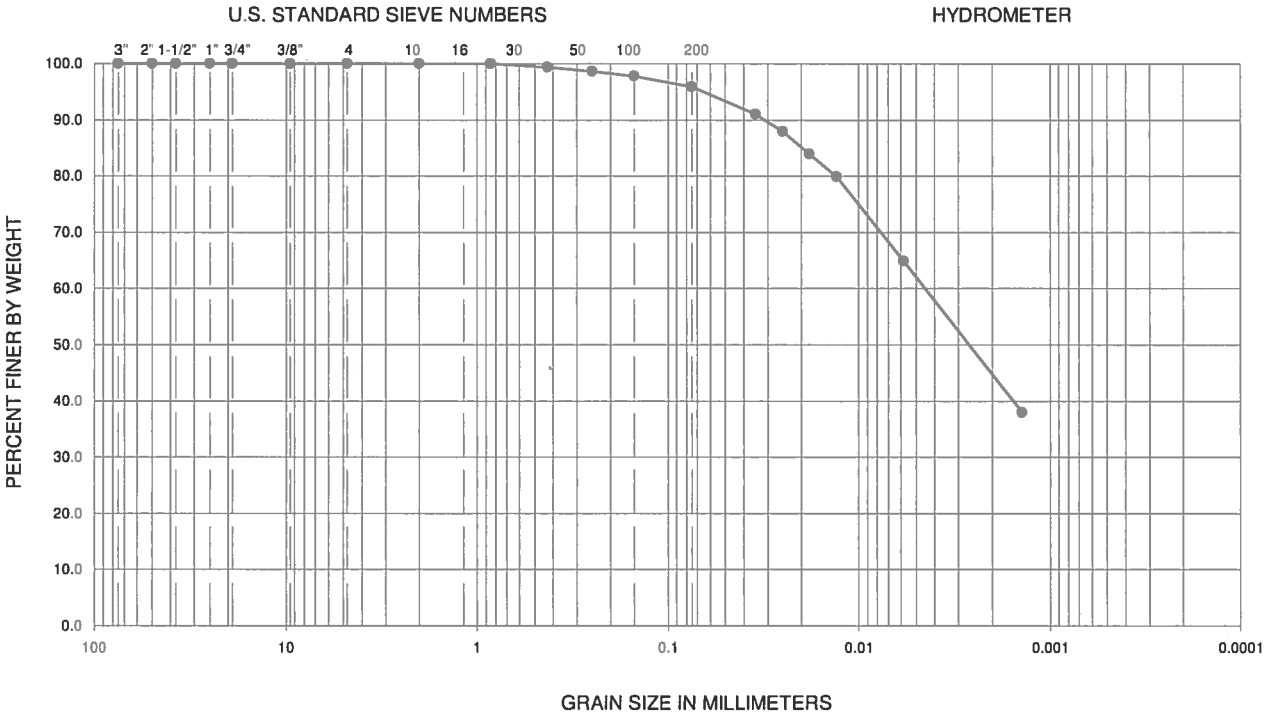
RECEIVED BY:
2/10/06 15:26 DATE / TIME
DATE / TIME
DATE / TIME

SIGNATURE

APPENDIX J

Geotechnical Test Laboratory Reports

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



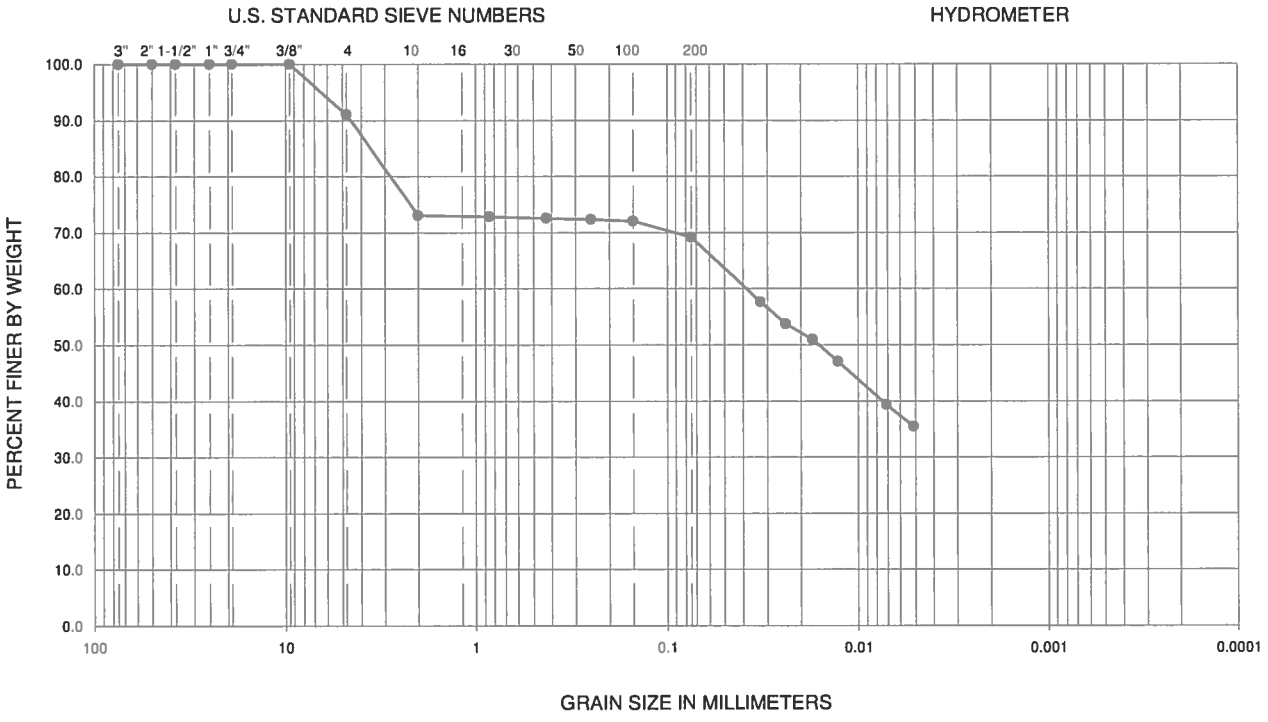
Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (%)	U.S.C.S
●	GB-1	11.0-13.5	--	--	--	--	0.00	0.00	--	--	96	CH-OH

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422-63 (02)

Ninyo & Moore	GRADATION TEST RESULTS	FIGURE
PROJECT NO. / DATE	General Mills	
2626008 / 2/06		

SIEVE+HYDRO2

GRAVEL		SAND			FINES	
Coarse	Fine	Coarse	Medium	Fine	SILT	CLAY



Symbol	Sample Location	Depth (ft)	Liquid Limit	Plastic Limit	Plasticity Index	D_{10}	D_{30}	D_{60}	C_u	C_c	Passing No. 200 (%)	U.S.C.S
●	GB-1	5.0-7.5	--	--	--	--	0.00	0.04	--	--	69	ML

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 422-63 (02)

Ninyo & Moore	GRADATION TEST RESULTS	FIGURE
PROJECT NO. / DATE	General Mills	
2626008 / 2/06		

SIEVE+HYDRO1

Ninyo & Moore

MOISTURE - DENSITY TEST DATA
(ASTM D 2937)

Page No.

Project Name:	General Mills			Project No.:	2626008		Technician:		Date:	
Sample Location	GB-1	GB-1	GB-1	GB-1						
Sample Depth (ft)	5.0-7.5	5.0-7.5	11.0-13.5	11.0-13.5						
Visual Soil Classification – Top										
Visual Soil Classification – Bottom										
Specific Gravity	2.696	2.732	2.687	2.755						
WEIGHTS										
Weight of Moist Soil + Rings (g)	2036.7		1526.2							
Sample Height (in)	7.82		6.37							
Weight of Rings (g)	606.2		490.1							
Weight of Moist Soil (g)	1430.5		1036.1							
Dish Number										
Weight of Moist Soil + Tare (g)	158.1		163.8							
Weight of Dry Soil + Tare (g)	128.1		107.2							
Weight of Tare (g)	31.5		32.0							
RESULTS										
Wet Density (pcf)	107.3		95.4							
Moisture Content (%)	31.1		75.3							
Dry Density (pcf)	81.8		54.4							
Degree of Saturation (%)	80.6		97.8							
Remarks										

SAMPLE LOCATION	SAMPLE DEPTH (FT)	U.S.C.S. SOIL TYPE	ORGANIC MATTER (% by dry weight)
GB-1	5.0-7.5	ML	4.9
GB-1	5.0-7.5	ML	5.3
GB-1	11.0-13.5	CH-OH	6.2
GB-1	11.0-13.5	CH-OH	6.5

PERFORMED IN GENERAL ACCORDANCE WITH ASTM D 2974-00

Ninyo & Moore		ORGANIC MATTER TEST RESULTS	FIGURE
PROJECT NO.	DATE	General Mills	
2626008	2/06		

APPENDIX K

Groundwater Analytical Laboratory Reports

ANALYTICAL REPORT

Job Number: 720-1445-1

Job Description: General Mills Site

For:

Malcolm Pirnie, Inc.
2000 Powell St, Suite 1180
Emeryville, CA 94608

Attention: Ms. Maryline Laugier

Surinder Sidhu

Surinder Sidhu
Project Manager I
ssidhu@stl-inc.com
01/23/2006

METHOD SUMMARY

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	STL-SF	SW846 8260B	
Purge-and-Trap	STL-SF		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	STL-SF	SW846 8270C	
Separatory Funnel Liquid-Liquid Extraction	STL-SF		SW846 3510C
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	STL-SF	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	STL-SF		SW846 3510C

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-1445-1TB	TRIP BLANK	Water	01/12/2006 0000	01/13/2006 1600
720-1445-2	MP-4	Water	01/12/2006 1432	01/13/2006 1600
720-1445-3	MP-2	Water	01/12/2006 1447	01/13/2006 1600
720-1445-4	MP-5	Water	01/12/2006 1554	01/13/2006 1600
720-1445-5	MP-3	Water	01/12/2006 1635	01/13/2006 1600
720-1445-6	MP-1	Water	01/12/2006 1718	01/13/2006 1600
720-1445-7FD	MP-1-DUP	Water	01/12/2006 1718	01/13/2006 1600

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 720-1445-1TB
Client Matrix: Water

Date Sampled: 01/12/2006 0000
Date Received: 01/13/2006 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/20/2006 0112
Date Prepared: 01/20/2006 0112

Analysis Batch: 720-4608

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	0.52		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	91	77 - 121
1,2-Dichloroethane-d4	90	73 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-4**

Lab Sample ID: 720-1445-2
Client Matrix: Water

Date Sampled: 01/12/2006 1432
Date Received: 01/13/2006 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/20/2006 0138
Date Prepared: 01/20/2006 0138

Analysis Batch: 720-4608

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	98	77 - 121
1,2-Dichloroethane-d4	81	73 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-2**

Lab Sample ID: 720-1445-3 Date Sampled: 01/12/2006 1447
Client Matrix: Water Date Received: 01/13/2006 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-4608 Instrument ID: Saturn 3900B
Preparation: 5030B Lab File ID: c:\saturnws\data\200601\01
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 01/20/2006 0203 Final Weight/Volume: 10 mL
Date Prepared: 01/20/2006 0203

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	2.1		0.50
Xylenes, Total	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	96	77 - 121
1,2-Dichloroethane-d4	84	73 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-5**

Lab Sample ID: 720-1445-4
Client Matrix: Water

Date Sampled: 01/12/2006 1554
Date Received: 01/13/2006 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/20/2006 0229
Date Prepared: 01/20/2006 0229

Analysis Batch: 720-4608

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	97	77 - 121
1,2-Dichloroethane-d4	79	73 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-3**

Lab Sample ID: 720-1445-5 Date Sampled: 01/12/2006 1635
Client Matrix: Water Date Received: 01/13/2006 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-4608 Instrument ID: Saturn 3900B
Preparation: 5030B Lab File ID: c:\saturnws\data\200601\01
Dilution: 1.0 Initial Weight/Volume: 10 mL
Date Analyzed: 01/20/2006 0255 Final Weight/Volume: 10 mL
Date Prepared: 01/20/2006 0255

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	0.74		0.50
Xylenes, Total	1.5		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	95	77 - 121
1,2-Dichloroethane-d4	82	73 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-1**

Lab Sample ID: 720-1445-6
Client Matrix: Water

Date Sampled: 01/12/2006 1718
Date Received: 01/13/2006 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/21/2006 1224
Date Prepared: 01/21/2006 1224

Analysis Batch: 720-4619

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	100		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	88	77 - 121
1,2-Dichloroethane-d4	95	73 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-1-DUP**

Lab Sample ID: 720-1445-7FD
Client Matrix: Water

Date Sampled: 01/12/2006 1718
Date Received: 01/13/2006 1600

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/21/2006 1246
Date Prepared: 01/21/2006 1246

Analysis Batch: 720-4619

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	130		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8	88	77 - 121
1,2-Dichloroethane-d4	97	73 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-4**

Lab Sample ID: 720-1445-2
Client Matrix: Water

Date Sampled: 01/12/2006 1432
Date Received: 01/13/2006 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1653
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\720-
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Naphthalene	ND		2.1
Acenaphthylene	ND		2.1
Acenaphthene	ND		2.1
Fluorene	ND		2.1
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Benzo[a]anthracene	ND		2.1
Chrysene	ND		2.1
Benzo[b]fluoranthene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
2-Methylnaphthalene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec		Acceptance Limits
Nitrobenzene-d5	29	*	35 - 114
2-Fluorobiphenyl	26	*	43 - 116
Terphenyl-d14	71		33 - 141

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-2**

Lab Sample ID: 720-1445-3
Client Matrix: Water

Date Sampled: 01/12/2006 1447
Date Received: 01/13/2006 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1720
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\720-
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Naphthalene	ND		2.1
Acenaphthylene	ND		2.1
Acenaphthene	ND		2.1
Fluorene	ND		2.1
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Benzo[a]anthracene	ND		2.1
Chrysene	ND		2.1
Benzo[b]fluoranthene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
2-Methylnaphthalene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec		Acceptance Limits
Nitrobenzene-d5	24	*	35 - 114
2-Fluorobiphenyl	26	*	43 - 116
Terphenyl-d14	70		33 - 141

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-5**

Lab Sample ID: 720-1445-4
Client Matrix: Water

Date Sampled: 01/12/2006 1554
Date Received: 01/13/2006 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1747
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\720-
Initial Weight/Volume: 960 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Naphthalene	ND		2.1
Acenaphthylene	ND		2.1
Acenaphthene	ND		2.1
Fluorene	ND		2.1
Phenanthrene	ND		2.1
Anthracene	ND		2.1
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Benzo[a]anthracene	ND		2.1
Chrysene	ND		2.1
Benzo[b]fluoranthene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
2-Methylnaphthalene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	37	35 - 114
2-Fluorobiphenyl	49	43 - 116
Terphenyl-d14	74	33 - 141

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-3**

Lab Sample ID: 720-1445-5
Client Matrix: Water

Date Sampled: 01/12/2006 1635
Date Received: 01/13/2006 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1814
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\720-
Initial Weight/Volume: 970 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Naphthalene	17		2.1
Acenaphthylene	ND		2.1
Acenaphthene	2.1		2.1
Fluorene	4.7		2.1
Phenanthrene	10		2.1
Anthracene	ND		2.1
Fluoranthene	2.3		2.1
Pyrene	ND		2.1
Benzo[a]anthracene	ND		2.1
Chrysene	ND		2.1
Benzo[b]fluoranthene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
2-Methylnaphthalene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	49	35 - 114
2-Fluorobiphenyl	55	43 - 116
Terphenyl-d14	82	33 - 141

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-1**

Lab Sample ID: 720-1445-6
Client Matrix: Water

Date Sampled: 01/12/2006 1718
Date Received: 01/13/2006 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1841
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\720-
Initial Weight/Volume: 970 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Naphthalene	ND		2.1
Acenaphthylene	ND		2.1
Acenaphthene	ND		2.1
Fluorene	3.2		2.1
Phenanthrene	3.7		2.1
Anthracene	ND		2.1
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Benzo[a]anthracene	ND		2.1
Chrysene	ND		2.1
Benzo[b]fluoranthene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
2-Methylnaphthalene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	58	35 - 114
2-Fluorobiphenyl	63	43 - 116
Terphenyl-d14	69	33 - 141

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-1-DUP**

Lab Sample ID: 720-1445-7FD
Client Matrix: Water

Date Sampled: 01/12/2006 1718
Date Received: 01/13/2006 1600

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method: 8270C
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/17/2006 1910
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\720-
Initial Weight/Volume: 950 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	RL
Naphthalene	ND		2.1
Acenaphthylene	ND		2.1
Acenaphthene	ND		2.1
Fluorene	3.7		2.1
Phenanthrene	3.5		2.1
Anthracene	ND		2.1
Fluoranthene	ND		2.1
Pyrene	ND		2.1
Benzo[a]anthracene	ND		2.1
Chrysene	ND		2.1
Benzo[b]fluoranthene	ND		2.1
Benzo[k]fluoranthene	ND		2.1
Benzo[a]pyrene	ND		2.1
Indeno[1,2,3-cd]pyrene	ND		2.1
Benzo[g,h,i]perylene	ND		2.1
2-Methylnaphthalene	ND		2.1
Dibenz(a,h)anthracene	ND		2.1

Surrogate	%Rec	Acceptance Limits
Nitrobenzene-d5	63	35 - 114
2-Fluorobiphenyl	64	43 - 116
Terphenyl-d14	79	33 - 141

Client: Malcolm Pirnie, Inc.

Job Number: 720-1445-1

Client Sample ID: **MP-4**

Lab Sample ID: 720-1445-2
Client Matrix: Water

Date Sampled: 01/12/2006 1432
Date Received: 01/13/2006 1600

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/16/2006 1749
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	67	60 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-2**

Lab Sample ID: 720-1445-3
Client Matrix: Water

Date Sampled: 01/12/2006 1447
Date Received: 01/13/2006 1600

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/16/2006 1816
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	75	60 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-5**

Lab Sample ID: 720-1445-4
Client Matrix: Water

Date Sampled: 01/12/2006 1554
Date Received: 01/13/2006 1600

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/16/2006 1843
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	86		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	78	60 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-3**

Lab Sample ID: 720-1445-5
Client Matrix: Water

Date Sampled: 01/12/2006 1635
Date Received: 01/13/2006 1600

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/16/2006 1911
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	290		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	73	60 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-1**

Lab Sample ID: 720-1445-6
Client Matrix: Water

Date Sampled: 01/12/2006 1718
Date Received: 01/13/2006 1600

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/16/2006 1938
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	3100		50
Motor Oil Range Organics [C24-C36]	1500		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	77	60 - 130

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Client Sample ID: **MP-1-DUP**

Lab Sample ID: 720-1445-7FD
Client Matrix: Water

Date Sampled: 01/12/2006 1718
Date Received: 01/13/2006 1600

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method: 8015B
Preparation: 3510C
Dilution: 1.0
Date Analyzed: 01/16/2006 2006
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	3300		50
Motor Oil Range Organics [C24-C36]	1800		500

Surrogate	%Rec	Acceptance Limits
o-Terphenyl	80	60 - 130

DATA REPORTING QUALIFIERS

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	*	LCS, LCSD, MS, MSD, MD, or Surrogate exceeds the control limits

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC/MS VOA				
Analysis Batch:720-4608				
LCS 720-4608/7	Lab Control Spike	Water	8260B	
LCSD 720-4608/6	Lab Control Spike Duplicate	Water	8260B	
MB 720-4608/8	Method Blank	Water	8260B	
720-1445-1TB	TRIP BLANK	Water	8260B	
720-1445-2	MP-4	Water	8260B	
720-1445-3	MP-2	Water	8260B	
720-1445-4	MP-5	Water	8260B	
720-1445-5	MP-3	Water	8260B	
Analysis Batch:720-4619				
LCS 720-4619/4	Lab Control Spike	Water	8260B	
LCSD 720-4619/3	Lab Control Spike Duplicate	Water	8260B	
MB 720-4619/5	Method Blank	Water	8260B	
720-1445-6	MP-1	Water	8260B	
720-1445-7FD	MP-1-DUP	Water	8260B	
GC/MS Semi VOA				
Prep Batch: 720-4321				
LCS 720-4321/2-A	Lab Control Spike	Water	3510C	
LCSD 720-4321/3-A	Lab Control Spike Duplicate	Water	3510C	
MB 720-4321/1-A	Method Blank	Water	3510C	
720-1445-2	MP-4	Water	3510C	
720-1445-3	MP-2	Water	3510C	
720-1445-4	MP-5	Water	3510C	
720-1445-5	MP-3	Water	3510C	
720-1445-6	MP-1	Water	3510C	
720-1445-7FD	MP-1-DUP	Water	3510C	
Analysis Batch:720-4414				
LCS 720-4321/2-A	Lab Control Spike	Water	8270C	720-4321
LCSD 720-4321/3-A	Lab Control Spike Duplicate	Water	8270C	720-4321
MB 720-4321/1-A	Method Blank	Water	8270C	720-4321
720-1445-2	MP-4	Water	8270C	720-4321
720-1445-3	MP-2	Water	8270C	720-4321
720-1445-4	MP-5	Water	8270C	720-4321
720-1445-5	MP-3	Water	8270C	720-4321
720-1445-6	MP-1	Water	8270C	720-4321
720-1445-7FD	MP-1-DUP	Water	8270C	720-4321

Client: Malcolm Pirnie, Inc.

Job Number: 720-1445-1

QC Association Summary

Lab Sample ID	Client Sample ID	Client Matrix	Method	Prep Batch
GC Semi VOA				
Prep Batch: 720-4344				
LCS 720-4344/2-A	Lab Control Spike	Water	3510C	
LCSD 720-4344/3-A	Lab Control Spike Duplicate	Water	3510C	
MB 720-4344/1-A	Method Blank	Water	3510C	
720-1445-2	MP-4	Water	3510C	
720-1445-3	MP-2	Water	3510C	
720-1445-4	MP-5	Water	3510C	
720-1445-5	MP-3	Water	3510C	
720-1445-6	MP-1	Water	3510C	
720-1445-7FD	MP-1-DUP	Water	3510C	
Analysis Batch:720-4463				
LCS 720-4344/2-A	Lab Control Spike	Water	8015B	720-4344
LCSD 720-4344/3-A	Lab Control Spike Duplicate	Water	8015B	720-4344
MB 720-4344/1-A	Method Blank	Water	8015B	720-4344
720-1445-2	MP-4	Water	8015B	720-4344
720-1445-3	MP-2	Water	8015B	720-4344
720-1445-4	MP-5	Water	8015B	720-4344
720-1445-5	MP-3	Water	8015B	720-4344
720-1445-6	MP-1	Water	8015B	720-4344
720-1445-7FD	MP-1-DUP	Water	8015B	720-4344

Client: Malcolm Pirnie, Inc.

Job Number: 720-1445-1

Method Blank - Batch: 720-4608

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-4608/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/20/2006 0020
Date Prepared: 01/20/2006 0020

Analysis Batch: 720-4608
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	91	77 - 121
1,2-Dichloroethane-d4	90	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4608

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-4608/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/19/2006 2328
Date Prepared: 01/19/2006 2328

Analysis Batch: 720-4608
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-4608/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/20/2006 0046
Date Prepared: 01/20/2006 0046

Analysis Batch: 720-4608
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 3900B
Lab File ID: c:\saturnws\data\200601\011
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	107	94	69 - 129	14	25		
MTBE	77	79	65 - 165	3	25		
Toluene	106	92	70 - 130	14	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	91	94	77 - 121
1,2-Dichloroethane-d4	74	80	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc.

Job Number: 720-1445-1

Method Blank - Batch: 720-4619

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-4619/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2006 1149
Date Prepared: 01/21/2006 1149

Analysis Batch: 720-4619
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200601\01
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
1,2-Dichloroethane	ND		0.50
Benzene	ND		0.50
Ethylbenzene	ND		0.50
MTBE	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
EDB	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8	88	77 - 121
1,2-Dichloroethane-d4	90	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc.

Job Number: 720-1445-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4619

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-4619/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2006 1105
Date Prepared: 01/21/2006 1105

Analysis Batch: 720-4619
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200601\0
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-4619/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/21/2006 1127
Date Prepared: 01/21/2006 1127

Analysis Batch: 720-4619
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200601\012
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	97	92	69 - 129	5	25		
MTBE	110	96	65 - 165	14	25		
Toluene	109	104	70 - 130	5	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8	91	88	77 - 121
1,2-Dichloroethane-d4	93	84	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc.

Job Number: 720-1445-1

Method Blank - Batch: 720-4321

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 720-4321/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2006 1342
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\MB
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	Result	Qual	RL
Naphthalene	ND		2.0
Acenaphthylene	ND		2.0
Acenaphthene	ND		2.0
Fluorene	ND		2.0
Phenanthrene	ND		2.0
Anthracene	ND		2.0
Fluoranthene	ND		2.0
Pyrene	ND		2.0
Benzo[a]anthracene	ND		2.0
Chrysene	ND		2.0
Benzo[b]fluoranthene	ND		2.0
Benzo[k]fluoranthene	ND		2.0
Benzo[a]pyrene	ND		2.0
Indeno[1,2,3-cd]pyrene	ND		2.0
Benzo[g,h,i]perylene	ND		2.0
2-Methylnaphthalene	ND		2.0
Dibenz(a,h)anthracene	ND		2.0

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	54	35 - 114
2-Fluorobiphenyl	54	43 - 116
Terphenyl-d14	72	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc.

Job Number: 720-1445-1

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4321

Method: 8270C
Preparation: 3510C

LCS Lab Sample ID: LCS 720-4321/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2006 1436
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\LC
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

LCSD Lab Sample ID: LCSD 720-4321/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/17/2006 1504
Date Prepared: 01/16/2006 0757

Analysis Batch: 720-4414
Prep Batch: 720-4321
Units: ug/L

Instrument ID: Sat 2K1
Lab File ID: d:\data\200601\011706\LCS
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume:

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Naphthalene	83	82	36 - 119	1	35		
Acenaphthylene	94	83	54 - 126	12	35		
Acenaphthene	76	76	56 - 118	0	30		
Fluorene	88	84	72 - 108	5	35		
Phenanthrene	100	91	44 - 125	9	35		
Anthracene	90	86	44 - 118	5	35		
Fluoranthene	90	86	43 - 121	4	35		
Pyrene	110	108	52 - 115	2	35		
Benzo[a]anthracene	102	88	42 - 133	15	35		
Chrysene	112	102	42 - 139	10	35		
Benzo[b]fluoranthene	110	115	42 - 140	4	35		
Benzo[k]fluoranthene	99	88	26 - 145	11	35		
Benzo[a]pyrene	103	108	32 - 148	5	35		
Indeno[1,2,3-cd]pyrene	108	106	10 - 150	2	35		
Benzo[g,h,i]perylene	106	110	10 - 140	3	35		
2-Methylnaphthalene	92	101	10 - 130	9	35		
Dibenz(a,h)anthracene	117	109	10 - 130	7	35		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Nitrobenzene-d5	75	80	35 - 114
2-Fluorobiphenyl	78	70	43 - 116
Terphenyl-d14	87	84	33 - 141

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Malcolm Pirnie, Inc.

Job Number: 720-1445-1

Method Blank - Batch: 720-4344

Method: 8015B
Preparation: 3510C

Lab Sample ID: MB 720-4344/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/16/2006 1626
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	71	60 - 130

Laboratory Control/
Laboratory Control Duplicate Recovery Report - Batch: 720-4344

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID: LCS 720-4344/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/16/2006 1653
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-4344/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/16/2006 1721
Date Prepared: 01/16/2006 1258

Analysis Batch: 720-4463
Prep Batch: 720-4344
Units: ug/L

Instrument ID: HP DRO3
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	71	70	60 - 130	2	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	79	77	60 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

SEVERN TRENT **STL**

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: info@chromalab.com

720-1445

Reference #: 300213

Date 01/12/06 Page 1 of 1

Report To

Attn: Maryline Laugier
Company: Malcolm Pirnie Inc.
Address: 2000 Powell Street, Suite 1180 Emeryville, CA 94608
Phone (510) 735-3034 Email: Mlaugier@Pirnie.com
Bill To: Malcolm Pirnie Inc. Sampled By: ESS
White Plains, NY Stephen Penman
Attn: Accts. Payable Phone (925) 260-7998

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA X 8015/8021 ☐ 8260B Gas w/ X BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M ☐ Silica Gel X Diesel X Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Fmt Oxygenates ☐ DCA, EDS ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS (VOCs) ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664)	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 606	PNAs by X 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other	WET (STLC) ☐ TCLP	Hexavalent Chromium pH (24h hold time for H_2O)	Spec Cond ☐ Alkalinity TSS ☐ TDS	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4					Number of Containers
Trip Blank	1/12/06		Water	HCl	X																					2
MP-4	1/12/06	1932	Water	HCl	X		X							X												6
MP-2	1/12/06	14:47	Water	HCl	X		X							X												6
MP-5	1/12/06	15:54	Water	HCl	X		X							X												6
MP-3	1/12/06	16:35	Water	HCl	X		X							X												6
MP-1	1/12/06	17:18	Water	HCl	X		X							X												6
MP-1-Dup	1/12/06	17:18	Water	HCl	X		X							X												6

Project Info.

Project Name: Former General Mills Site
Project#: 26216-008
PO#:
Credit Card#:

Sample Receipt

of Containers:
Head Space:
Temp: 20 C
Conforms to record:

TAT: 5 Day | 72h | 48h | 24h | Other:

Report: X Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID

Special Instructions / Comments:

3-40ml HCl
3-AMBER 1L

	1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature	[signature]	[signature]	
Time	1500	1600	
Printed Name	Stephen Penman	[signature]	
Date	1/13/06	01-13-06	
Company	Environmental Sampling Services	STL SF	

	1) Received by:	2) Received by:	3) Received by:
Signature	[signature]	[signature]	
Time	1500	1600	
Printed Name	Murat	T. Bulloa	
Date	01-13-06	1/13/06	
Company	STL SF	STL SF	

Rev 07/02

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Malcolm Pirnie, Inc. Job Number: 720-1445-1

Login Number: 1445

Question	T/F/NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	110421
Units:	ug/L	Received:	02/10/06
Diln Fac:	1.000	Prepared:	02/13/06

Field ID: MP-5 Sampled: 02/09/06
Type: SAMPLE Analyzed: 02/14/06
Lab ID: 184870-005

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	106	60-135

Field ID: MP-3 Sampled: 02/10/06
Type: SAMPLE Analyzed: 02/15/06
Lab ID: 184870-009

Analyte	Result	RL
Diesel C10-C24	210 Y	50

Surrogate	%REC	Limits
Hexacosane	109	60-135

Type: BLANK Analyzed: 02/14/06
Lab ID: QC327920

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
Hexacosane	120	60-135

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie, Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	110421
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	1.000	Analyzed:	02/14/06

Type: BS Lab ID: QC327921

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,525	101	53-138

Surrogate	%REC	Limits
Hexacosane	109	60-135

Type: BSD Lab ID: QC327922

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,628	105	53-138	4	36

Surrogate	%REC	Limits
Hexacosane	113	60-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	110421
Units:	ug/L	Received:	02/10/06
Diln Fac:	1.000	Prepared:	02/13/06

Field ID: MP-4 Sampled: 02/09/06
Type: SAMPLE Analyzed: 02/14/06
Lab ID: 184870-002

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	114	60-135

Field ID: MP-2 Sampled: 02/09/06
Type: SAMPLE Analyzed: 02/14/06
Lab ID: 184870-003

Analyte	Result	RL
Diesel C10-C24	87 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	109	60-135

Field ID: MP-8 Sampled: 02/09/06
Type: SAMPLE Analyzed: 02/14/06
Lab ID: 184870-004

Analyte	Result	RL
Diesel C10-C24	320 H Y	50
Motor Oil C24-C36	460	300

Surrogate	%REC	Limits
Hexacosane	104	60-135

Field ID: MP-7 Sampled: 02/10/06
Type: SAMPLE Analyzed: 02/14/06
Lab ID: 184870-006

Analyte	Result	RL
Diesel C10-C24	690 H Y	50
Motor Oil C24-C36	550	300

Surrogate	%REC	Limits
Hexacosane	103	60-135

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Total Extractable Hydrocarbons

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	110421
Units:	ug/L	Received:	02/10/06
Diln Fac:	1.000	Prepared:	02/13/06

Field ID: MP-7-DUP
Type: SAMPLE
Lab ID: 184870-007
Sampled: 02/10/06
Analyzed: 02/15/06

Analyte	Result	RL
Diesel C10-C24	790 H Y	50
Motor Oil C24-C36	640	300

Surrogate	%REC	Limits
Hexacosane	115	60-135

Field ID: MP-6
Type: SAMPLE
Lab ID: 184870-008
Sampled: 02/10/06
Analyzed: 02/15/06

Analyte	Result	RL
Diesel C10-C24	9,600 H Y	50
Motor Oil C24-C36	630 L	300

Surrogate	%REC	Limits
Hexacosane	117	60-135

Field ID: MP-1
Type: SAMPLE
Lab ID: 184870-010
Sampled: 02/10/06
Analyzed: 02/15/06

Analyte	Result	RL
Diesel C10-C24	5,800 H Y	50
Motor Oil C24-C36	3,800	300

Surrogate	%REC	Limits
Hexacosane	115	60-135

Type: BLANK
Lab ID: QC327920
Analyzed: 02/14/06

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
Hexacosane	120	60-135

H= Heavier hydrocarbons contributed to the quantitation
L= Lighter hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	110421
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	1.000	Analyzed:	02/14/06

Type: BS Lab ID: QC327921

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,525	101	53-138

Surrogate	%REC	Limits
Hexacosane	109	60-135

Type: BSD Lab ID: QC327922

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,628	105	53-138	4	36

Surrogate	%REC	Limits
Hexacosane	113	60-135

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	02/10/06

Field ID: MP-4
Type: SAMPLE
Lab ID: 184870-002

Batch#: 110402
Sampled: 02/09/06
Analyzed: 02/13/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	103	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	117	80-124

Field ID: MP-2
Type: SAMPLE
Lab ID: 184870-003

Batch#: 110402
Sampled: 02/09/06
Analyzed: 02/13/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	2.5	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	105	80-125
Toluene-d8	103	80-120
Bromofluorobenzene	119	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	02/10/06

Field ID:	MP-8	Batch#:	110402
Type:	SAMPLE	Sampled:	02/09/06
Lab ID:	184870-004	Analyzed:	02/14/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	0.69	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	0.68	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	105	80-125
Toluene-d8	102	80-120
Bromofluorobenzene	118	80-124

Field ID:	MP-5	Batch#:	110402
Type:	SAMPLE	Sampled:	02/09/06
Lab ID:	184870-005	Analyzed:	02/14/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	105	80-125
Toluene-d8	102	80-120
Bromofluorobenzene	115	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Dil'n Fac:	1.000
Units:	ug/L	Received:	02/10/06

Field ID:	MP-7	Batch#:	110402
Type:	SAMPLE	Sampled:	02/10/06
Lab ID:	184870-006	Analyzed:	02/14/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	0.80	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	105	80-125
Toluene-d8	102	80-120
Bromofluorobenzene	114	80-124

Field ID:	MP-7-DUP	Batch#:	110402
Type:	SAMPLE	Sampled:	02/10/06
Lab ID:	184870-007	Analyzed:	02/14/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	0.75	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	0.53	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-121
1,2-Dichloroethane-d4	106	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	115	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	02/10/06

Field ID:	MP-6	Batch#:	110393
Type:	SAMPLE	Sampled:	02/10/06
Lab ID:	184870-008	Analyzed:	02/13/06

Analyte	Result	RL
Gasoline C7-C12	79	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	2.7	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	1.1	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-121
1,2-Dichloroethane-d4	121	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	106	80-124

Field ID:	MP-3	Batch#:	110393
Type:	SAMPLE	Sampled:	02/10/06
Lab ID:	184870-009	Analyzed:	02/13/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	0.84	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	0.93	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	119	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	111	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	02/10/06

Field ID:	MP-1	Batch#:	110393
Type:	SAMPLE	Sampled:	02/10/06
Lab ID:	184870-010	Analyzed:	02/13/06

Analyte	Result	RL
Gasoline C7-C12	83	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	121	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	106	80-124

Type:	BLANK	Batch#:	110393
Lab ID:	QC327821	Analyzed:	02/13/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	104	80-125
Toluene-d8	96	80-120
Bromofluorobenzene	107	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Diln Fac:	1.000
Units:	ug/L	Received:	02/10/06

Type:	BLANK	Batch#:	110402
Lab ID:	QC327847	Analyzed:	02/13/06

Analyte	Result	RL
Gasoline C7-C12	ND	50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	105	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	115	80-124

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	110393
Units:	ug/L	Analyzed:	02/13/06
Diln Fac:	1.000		

Type: BS Lab ID: QC327817

Analyte	Spiked	Result	%REC	Limits
1,2-Dichloroethane	25.00	24.88	100	77-120
Benzene	25.00	23.95	96	80-120
Toluene	25.00	25.68	103	80-120
1,2-Dibromoethane	25.00	24.67	99	80-120
Ethylbenzene	25.00	26.64	107	80-120
m,p-Xylenes	50.00	52.87	106	80-121
o-Xylene	25.00	26.11	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	102	80-125
Toluene-d8	97	80-120
Bromofluorobenzene	98	80-124

Type: BSD Lab ID: QC327818

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,2-Dichloroethane	25.00	25.09	100	77-120	1	20
Benzene	25.00	23.90	96	80-120	0	20
Toluene	25.00	25.48	102	80-120	1	20
1,2-Dibromoethane	25.00	24.95	100	80-120	1	20
Ethylbenzene	25.00	24.92	100	80-120	7	20
m,p-Xylenes	50.00	51.00	102	80-121	4	20
o-Xylene	25.00	24.98	100	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	107	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	97	80-124

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	110393
Units:	ug/L	Analyzed:	02/13/06
Diln Fac:	1.000		

Type: BS Lab ID: QC327819

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,500	1,438	96	70-130
1,2-Dichloroethane		NA		
Benzene		NA		
Toluene		NA		
1,2-Dibromoethane		NA		
Ethylbenzene		NA		
m,p-Xylenes		NA		
o-Xylene		NA		

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-121
1,2-Dichloroethane-d4	105	80-125
Toluene-d8	97	80-120
Bromofluorobenzene	96	80-124

Type: BSD Lab ID: QC327820

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,500	1,441	96	70-130	0	20
1,2-Dichloroethane		NA				
Benzene		NA				
Toluene		NA				
1,2-Dibromoethane		NA				
Ethylbenzene		NA				
m,p-Xylenes		NA				
o-Xylene		NA				

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	104	80-125
Toluene-d8	97	80-120
Bromofluorobenzene	97	80-124

NA= Not Analyzed
RPD= Relative Percent Difference

4.0

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	110402
Units:	ug/L	Analyzed:	02/13/06
Diln Fac:	1.000		

Type: BS Lab ID: QC327843

Analyte	Spiked	Result	%REC	Limits
1,2-Dichloroethane	25.00	24.03	96	77-120
Benzene	25.00	22.32	89	80-120
Toluene	25.00	22.90	92	80-120
1,2-Dibromoethane	25.00	23.83	95	80-120
Ethylbenzene	25.00	22.21	89	80-120
m,p-Xylenes	50.00	43.27	87	80-121
o-Xylene	25.00	22.38	90	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	104	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	105	80-124

Type: BSD Lab ID: QC327844

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,2-Dichloroethane	25.00	24.07	96	77-120	0	20
Benzene	25.00	23.15	93	80-120	4	20
Toluene	25.00	23.19	93	80-120	1	20
1,2-Dibromoethane	25.00	25.44	102	80-120	7	20
Ethylbenzene	25.00	23.04	92	80-120	4	20
m,p-Xylenes	50.00	44.42	89	80-121	3	20
o-Xylene	25.00	23.20	93	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-121
1,2-Dichloroethane-d4	106	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	106	80-124

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Gasoline by GC/MS

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 5030B
Project#:	2626-008	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	110402
Units:	ug/L	Analyzed:	02/13/06
Diln Fac:	1.000		

Type: BS Lab ID: QC327845

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	935.6	94	70-130
1,2-Dichloroethane		NA		
Benzene		NA		
Toluene		NA		
1,2-Dibromoethane		NA		
Ethylbenzene		NA		
m,p-Xylenes		NA		
o-Xylene		NA		

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	107	80-125
Toluene-d8	102	80-120
Bromofluorobenzene	108	80-124

Type: BSD Lab ID: QC327846

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	972.5	97	70-130	4	20
1,2-Dichloroethane		NA				
Benzene		NA				
Toluene		NA				
1,2-Dibromoethane		NA				
Ethylbenzene		NA				
m,p-Xylenes		NA				
o-Xylene		NA				

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	104	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	106	80-124

NA= Not Analyzed
RPD= Relative Percent Difference

6.0

Curtis & Tompkins, Ltd.
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Semivolatile Organics by GC/MS SIM

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8270C-SIM
Field ID:	MP-8	Batch#:	110419
Lab ID:	184870-004	Sampled:	02/09/06
Matrix:	Water	Received:	02/10/06
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	1.000	Analyzed:	02/15/06

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	86	39-135
2-Fluorobiphenyl	67	41-120
Terphenyl-d14	80	27-126

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8270C-SIM
Field ID:	MP-7	Batch#:	110419
Lab ID:	184870-006	Sampled:	02/10/06
Matrix:	Water	Received:	02/10/06
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	1.000	Analyzed:	02/15/06

Analyte	Result	RL
Naphthalene	4.5	0.1
Acenaphthylene	ND	0.1
Acenaphthene	3.8	0.1
Fluorene	1.8	0.1
Phenanthrene	2.0	0.1
Anthracene	0.3	0.1
Fluoranthene	0.3	0.1
Pyrene	0.3	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	95	39-135
2-Fluorobiphenyl	68	41-120
Terphenyl-d14	76	27-126

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie, Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8270C-SIM
Field ID:	MP-7-DUP	Batch#:	110419
Lab ID:	184870-007	Sampled:	02/10/06
Matrix:	Water	Received:	02/10/06
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	1.000	Analyzed:	02/15/06

Analyte	Result	RL
Naphthalene	5.5	0.1
Acenaphthylene	ND	0.1
Acenaphthene	4.4	0.1
Fluorene	2.0	0.1
Phenanthrene	2.2	0.1
Anthracene	0.3	0.1
Fluoranthene	0.4	0.1
Pyrene	0.3	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	112	39-135
2-Fluorobiphenyl	78	41-120
Terphenyl-d14	82	27-126

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie, Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8270C-SIM
Field ID:	MP-6	Batch#:	110419
Lab ID:	184870-008	Sampled:	02/10/06
Matrix:	Water	Received:	02/10/06
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	5.000	Analyzed:	02/15/06

Analyte	Result	RL
Naphthalene	ND	0.5
Acenaphthylene	ND	0.5
Acenaphthene	0.8	0.5
Fluorene	1.3	0.5
Phenanthrene	1.7	0.5
Anthracene	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.5
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.5
Benzo(b)fluoranthene	ND	0.5
Benzo(k)fluoranthene	ND	0.5
Benzo(a)pyrene	ND	0.5
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.5
Benzo(g,h,i)perylene	ND	0.5

Surrogate	%REC	Limits
Nitrobenzene-d5	85	39-135
2-Fluorobiphenyl	84	41-120
Terphenyl-d14	64	27-126

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8270C-SIM
Field ID:	MP-3	Batch#:	110419
Lab ID:	184870-009	Sampled:	02/10/06
Matrix:	Water	Received:	02/10/06
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	1.000	Analyzed:	02/14/06

Analyte	Result	RL
Naphthalene	4.5	0.1
Acenaphthylene	0.6	0.1
Acenaphthene	0.7	0.1
Fluorene	1.6	0.1
Phenanthrene	3.8	0.1
Anthracene	0.7	0.1
Fluoranthene	1.2	0.1
Pyrene	1.2	0.1
Benzo(a)anthracene	0.2	0.1
Chrysene	0.2	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	0.1	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	92	39-135
2-Fluorobiphenyl	76	41-120
Terphenyl-d14	100	27-126

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Semivolatile Organics by GC/MS SIM

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8270C-SIM
Field ID:	MP-1	Batch#:	110419
Lab ID:	184870-010	Sampled:	02/10/06
Matrix:	Water	Received:	02/10/06
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	5.000	Analyzed:	02/15/06

Analyte	Result	RL
Naphthalene	ND	0.5
Acenaphthylene	ND	0.5
Acenaphthene	1.4	0.5
Fluorene	1.7	0.5
Phenanthrene	1.3	0.5
Anthracene	ND	0.5
Fluoranthene	ND	0.5
Pyrene	ND	0.5
Benzo(a)anthracene	ND	0.5
Chrysene	ND	0.5
Benzo(b)fluoranthene	ND	0.5
Benzo(k)fluoranthene	ND	0.5
Benzo(a)pyrene	ND	0.5
Indeno(1,2,3-cd)pyrene	ND	0.5
Dibenz(a,h)anthracene	ND	0.5
Benzo(g,h,i)perylene	ND	0.5

Surrogate	%REC	Limits
Nitrobenzene-d5	91	39-135
2-Fluorobiphenyl	71	41-120
Terphenyl-d14	55	27-126

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC327914	Batch#:	110419
Matrix:	Water	Prepared:	02/13/06
Units:	ug/L	Analyzed:	02/14/06

Analyte	Result	RL
Naphthalene	ND	0.1
Acenaphthylene	ND	0.1
Acenaphthene	ND	0.1
Fluorene	ND	0.1
Phenanthrene	ND	0.1
Anthracene	ND	0.1
Fluoranthene	ND	0.1
Pyrene	ND	0.1
Benzo(a)anthracene	ND	0.1
Chrysene	ND	0.1
Benzo(b)fluoranthene	ND	0.1
Benzo(k)fluoranthene	ND	0.1
Benzo(a)pyrene	ND	0.1
Indeno(1,2,3-cd)pyrene	ND	0.1
Dibenz(a,h)anthracene	ND	0.1
Benzo(g,h,i)perylene	ND	0.1

Surrogate	%REC	Limits
Nitrobenzene-d5	108	39-135
2-Fluorobiphenyl	85	41-120
Terphenyl-d14	106	27-126

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3520C
Project#:	2626-008	Analysis:	EPA 8270C-SIM
Matrix:	Water	Batch#:	110419
Units:	ug/L	Prepared:	02/13/06
Diln Fac:	1.000	Analyzed:	02/14/06

Type: BS Lab ID: QC327915

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	1.000	0.8060	81	48-123
Pyrene	1.000	0.9851	99	47-129

Surrogate	%REC	Limits
Nitrobenzene-d5	101	39-135
2-Fluorobiphenyl	83	41-120
Terphenyl-d14	100	27-126

Type: BSD Lab ID: QC327916

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	1.000	0.8484	85	48-123	5	37
Pyrene	1.000	1.020	102	47-129	4	37

Surrogate	%REC	Limits
Nitrobenzene-d5	109	39-135
2-Fluorobiphenyl	87	41-120
Terphenyl-d14	104	27-126

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Lead

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3010A
Project#:	2626-008	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	110438
Matrix:	Water	Received:	02/10/06
Units:	ug/L	Prepared:	02/14/06
Diln Fac:	1.000	Analyzed:	02/14/06

Field ID	Type	Lab ID	Result	RL	Sampled
MP-5	SAMPLE	184870-005	ND	3.0	02/09/06
MP-3	SAMPLE	184870-009	ND	3.0	02/10/06
	BLANK	QC327980	ND	3.0	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Lead			
Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	EPA 3010A
Project#:	2626-008	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	110438
Field ID:	MP-5	Sampled:	02/09/06
MSS Lab ID:	184870-005	Received:	02/10/06
Matrix:	Water	Prepared:	02/14/06
Units:	ug/L	Analyzed:	02/14/06
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC327981		100.0	89.19	89	76-124		
BSD	QC327982		100.0	97.00	97	76-124	8	20
MS	QC327983	<0.5698	100.0	82.15	82	61-135		
MSD	QC327984		100.0	85.99	86	61-135	5	23

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
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Total Dissolved Solids (TDS)

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	METHOD
Project#:	2626-008	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	110453
Matrix:	Water	Received:	02/10/06
Units:	mg/L	Analyzed:	02/14/06

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled
MP-4	SAMPLE	184870-002	410	50	5.000	02/09/06
MP-2	SAMPLE	184870-003	1,800	100	10.00	02/09/06
MP-8	SAMPLE	184870-004	13,300	100	10.00	02/09/06
MP-5	SAMPLE	184870-005	680	50	5.000	02/09/06
MP-7	SAMPLE	184870-006	4,170	50	5.000	02/10/06
MP-7-DUP	SAMPLE	184870-007	4,150	50	5.000	02/10/06
MP-6	SAMPLE	184870-008	1,280	50	5.000	02/10/06
MP-3	SAMPLE	184870-009	560	50	5.000	02/10/06
MP-1	SAMPLE	184870-010	2,660	50	5.000	02/10/06
	BLANK	QC328042	ND	10	1.000	

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Batch QC Report

Total Dissolved Solids (TDS)

Lab #:	184870	Location:	Former General Mills Site
Client:	Malcolm Pirnie,Inc.	Prep:	METHOD
Project#:	2626-008	Analysis:	EPA 160.1
Analyte:	Total Dissolved Solids	Batch#:	110453
Field ID:	MP-4	Sampled:	02/09/06
MSS Lab ID:	184870-002	Received:	02/10/06
Matrix:	Water	Analyzed:	02/14/06
Units:	mg/L		

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim	Diln Fac
BS	QC328043		100.0	84.00		84	79-123			1.000
BSD	QC328044		100.0	94.00		94	79-123	11	20	1.000
SDUP	QC328045	410.0		480.0	50.00			16	20	5.000

RL= Reporting Limit
RPD= Relative Percent Difference

22.0

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 18487D

Sampler: Stephen Penman (Env. sampling Svc.)

Project No.: 2626-005 **Report To:** Todd Miller

Project Name: Former General Mills Site **Company:** Malcolm Pirnie, Inc.

Project P.O.: **Telephone:** (510) 596-3060

Turnaround Time: Standard (5 Day) **Fax:** (510) 596-8866

Analysis

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	TPH-Gas by 8260	TPH-Gas/BTEX by 8260	TPH-Gas/BTEX/EDC/EDB by 8260	TPH-Diesel	TPH-Diesel + Motor Oil	PNAs (8270) - SIM	TDS	Pb
-1	Trip Blank			X		2	X			X								
-2	MP-4	2/9/06 14:18		X		5	X			X	X				X	X		
-3	MP-2	2/9/06 15:31		X		5	X			X		X			X	X		
-4	MP-8	2/9/06 16:18		X		6	X			X		X			X	X		
-5	MP-5	2/9/06 17:06		X		6	X		X	X		X	X		X	X		
-6	MP-7	2/10/06 10:28		X		6	X			X		X			X	X		
-7	MP-7-DUP	2/10/06 10:28		X		6	X			X		X			X	X		
-8	MP-6	2/10/06 11:58		X		6	X			X		X			X	X		
-9	MP-3	2/10/06 13:02		X		7	X		X	X		X	X		X	X		
-10	MP-1	2/10/06 13:48		X		6	X			X		X			X	X		

Notes:

SAMPLE RECEIPT
☑ Intact ☑ Cold
☑ On Ice ☐ Ambient

Preservative Correct?
☒ Yes ☐ No ☐ N/A

RELINQUISHED BY:

2/10/06 15:26 DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY:

2/10/06 15:26 DATE / TIME

DATE / TIME

DATE / TIME

SIGNATURE

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900 Phone
(510) 486-0532 Fax

CHAIN OF CUSTODY

C & T LOGIN #: 184870

Sampler: Stephen Penman (Env. sampling Svc.)

Project No.: 2626-008 | Report To: Todd Miller

Project Name: Former General Mills site | Company: Malcolm Pirnie, Inc.

Project P.O.: | Telephone: (510) 596-3060

Turnaround Time: Standard (5 Day) | Fax: (510) 596-8866

Lab No.	Sample ID.	Sampling Date	Time	Matrix: Soil	Water	Waste		# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE
-1	Trip Blank				X			2	X			X
-2	MP-4	2/9/06	14:18		X			5	X			X
-3	MP-2	2/9/06	15:31		X			5	X			X
-4	MP-8	2/9/06	16:18		X			6	X			X
-5	MP-5	2/9/06	17:06		X			6	X		X	X
-6	MP-7	2/10/06	10:28		X			6	X			X
-7	MP-7-DUP	2/10/06	10:28		X			6	X			X
-8	MP-6	2/10/06	11:58		X			6	X			X
-9	MP-3	2/10/06	13:02		X			7	X		X	X
-10	MP-1	2/10/06	13:48		X			6	X			X

Analysis: TPH-Gas by 8260 C; TPH-Gas/BTEX by 8260 C; TPH-Gas/BTEX/EDB by 8260 C; TPH-Diesel; TPH-Diesel + Motor Oil; PNAs (8270) - SIM; TDS; Pb

Notes:

SAMPLE RECEIPT: ☑ Intact ☑ Cold ☑ On Ice ☐ Ambient

Preservative Correct? ☒ Yes ☐ No ☐ N/A

RELINQUISHED BY:

SIGNATURE — 2/10/06 15:26 DATE / TIME

DATE / TIME

DATE / TIME

RECEIVED BY:

2/10/06 15:26 DATE / TIME

DATE / TIME

DATE / TIME