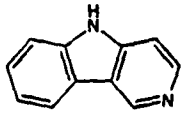
NM1 - 6

# INSPECTIONS & DATA

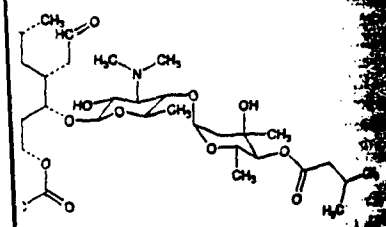
.76%. $NH_2NHCONHNH_2$. Prepd by ref
rbonate with hydrazine hydrate: Mohr et
32 (1953).
m water + ethanol, dec 153-154°. Freely
l of 1% aq soln ~7.4. Practically insol
chloroform, benzene. Forms salts with acid
acid it forms the highly explosive carbo

Carboline. *5H-Pyrido[4,3-b]indole; 2H-pyri*
5-carboline. $C_{11}H_8N_2$; mol wt 168.20. C
9%, N 16.66%. Prepn: Robinson, Thorala
125, 2169 (1924). Prepn of derivs: Hörlein
(1954); C. Ducrocq *et al., J. Heterocycl. Chem.*
. NMR studies: F. Balkau, M. L. Heffern
26, 1501, 1523 (1973).



needles from water, mp 225°. d 1.352.
atmospheric pressure without dec. Strong
l in methanol; somewhat less sol in ethan
benzene, water.

omycin. Magnamycin. Sixteen-membered
antibiotic complex similar to leucomycin
omycin, *q.v.*, produced by *Streptomyces*
d antibacterial activity: F. W. Tanner *et al.*
*nother.* 2, 441 (1952). Two components
Carbomycin A (major) and carbomycin
iedman *et al.*, U.S. pat. 2,960,438 (1960
A. Hochstein, K. Murai, *J. Am. Chem. Soc.*
. Structure of A and B: R. B. Woodward
9, 50 (1957); revised structure: M. Kuehne
*J. Am. Chem. Soc.* 87, 4660 (1965); K.
., *ibid.* 4662. Abs config of A and B: W.
, 5028 (1966). Identity of A with deltam
imauchi *et al., J. Antibiot.* 31, 270 (197
K. Tatsuta *et al., J. Am. Chem. Soc.*
itereospecific total synthesis of B:
ers 1980, 2837. Retrosynthetic studies:
*al., J. Am. Chem. Soc.* 103, 1222 (19
zquez, in *Antibiotics* Vol. 1, D. Gottlieb
Springer-Verlag, New York, 1967) pp 3
Schierlein in *Fortschr. Chem. Org. Natur.*
3).



Carbomycin A

, $C_{42}H_{67}NO_{16}$, *(12S,13S)-9-deoxy-12,13-epoxy-9-oxoleucomycin V 3-acetate 4B-(3-methylbutanoate), deltamycin A, M-4209.* Blunt
nol, mp 214°. $[\alpha]_D^{25}$ −58.6° (chloroform
ol): 238, 327 nm ($E_{1cm}^{1\%}$ 185, 0.9). Carbo
s the free base having a potency of 10
ability of soln data *see* H. L. Martin, *Anal.*
*r.* 3, 865 (1953). Weak base. pKb 12.
ined by Weiss *et al., ibid.* 7, 374 (1957).
28°: water 0.295; methanol > 20; ethanol
mice: 550 mg/kg (Tanner).
$C_{42}H_{67}NO_{15}$, *9-deoxy-9-oxoleucomycin V 3-acetate (4B-(3-methylbutanoate), magnamycin B.* Colorless
from acetone/water, mp 141-144° (dec)
$[\alpha]_D^{25}$ −35° (c = 1 in chloroform). uv

(abs ethanol): 278 nm ($E_{1cm}^{1\%}$ 276). pKb 7.56. Solubilities in mg/ml at 25°: ethanol 450; water 0.1-0.2.
THERAP CAT: Antibacterial.
THERAP CAT (VET): Antibacterial.

**1855. Carbon.** C; at. wt 12.01115; at. no. 6; valence 4. Stable isotopes: 12 (98.892%); 13 (1.108%); radioactive isotopes: 9-11; 14-16. Abundance in earth's crust: approx 0.027%. Cosmic abundance: 6 atoms/atom Si. Occurs in 4 allotropic forms: (1) diamond, *q.v.*; (2) graphite, *q.v.* or black lead; (3) amorphous carbon such as coal, lampblack; (4) fullerenes, *see* Buckminsterfullerene, the only molecular form. Comprehensive reviews: P. L. Walker, *Am. Scientist* 50, 259-293 (June 1962); Holliday *et al.* in *Comprehensive Inorganic Chemistry* vol. 1, J. C. Bailar, Jr. *et al.*, Eds. (Pergamon Press, Oxford, 1973) pp 1173-1294; several authors in Kirk-Othmer *Encyclopedia of Chemical Technology* vol. 4 (Wiley-Interscience, New York, 3rd ed., 1978) pp 556-709.

$^{14}C$ isotope, continuously formed in the earth's atm by the bombardment of nitrogen with cosmic neutrons according to the reaction $^{14}_{7}N + {}^{1}_{0}n \rightarrow {}^{14}_{6}C + {}^{1}_{1}H$. The $^{14}C$ is rapidly oxidized to $CO_2$; in this form it penetrates into animals and plants by photosynthesis and metabolism. The $^{14}C$ content of living matter is estimated at 15.3 disintegrations per minute and per gram of carbon, corresponding to the equilibrium reached between formation of $^{14}C$ and its exchange with $^{12}C$. This equilibrium stops when the plant or animal dies, and the $^{14}C$ content begins to decrease, because the $^{14}C$ decays with a half-life of 5760 years. This fact can be used to date organic matter (not more than 40,000 years old) by comparison with the standard 15.3 disintegrations per min per gram: M. Haissinsky, J. P. Adloff, *Radiochemical Survey of the Elements* (Elsevier, New York, 1965) pp 30-32.

**1856. Carbon, Amorphous.** Carbon black; activated carbon; decolorizing carbon. A quasi-graphitic form of carbon of small particle size. By the term "carbon black" several forms of artificially prepared carbon or charcoal are designated, e.g.: (1) *Animal charcoal,* obtained by charring bones, meat, blood, etc.; (2) *Gas black; furnace black; channel black; C.I. 77266,* obtained by incomplete combustion of natural gas; (3) *Lamp black,* obtained by burning various fats, oils, resins, etc., under suitable conditions; (4) *Activated charcoal, e.g. Carbomix, Carboraffin, Medicoal, Norit, Opocarbol, Ultracarbon,* prepd from wood and vegetables. Monograph: H. W. Davidson *et al., Manufactured Carbon* (Pergamon Press, New York, 1968). *Reviews:* Cohan in *Science of Petroleum* vol. V, Pt 2, B. T. Brooks, A. E. Dunstan, Eds. (Oxford Univ. Press, 1953), pp 79-89; Smisek, Cerny, *Active Carbon* (Elsevier Publishing Co., Amsterdam, 1970).

*Note:* Carbon black obtained by the impingement or channel process, also known as gas black and channel black, has been banned by the FDA for use as a color additive in foods, drugs and cosmetics.

USE: Pigment for rubber tires; for printing, stenciling and drawing inks; for leather; stove polish, phonograph records, electrical insulating apparatus. Activated charcoal for clarifying, deodorizing, decolorizing and filtering.
THERAP CAT: Activated charcoal as antidote; adsorptive.
THERAP CAT (VET): Internally as an adsorptive in diarrhea; externally in foul wounds.

**1857. Carbon Dioxide.** Carbonic acid gas; carbonic anhydride. $CO_2$; mol wt 44.01. C 27.29%, O 72.71%. Occurs in the atms of many planets. In our solar system, e.g., on Venus, the optical layer thickness due to $CO_2$ is 100,000 cm/atm, but only 220 cm/atm on Earth. Analyses of air in the temperate zones of the Earth show 0.027 to 0.036% (v/v) of $CO_2$: G. P. Kuiper, *The Atmospheres of the Earth and the Planets* (Univ. of Chicago Press, 1949); Landolt-Börnstein, *Zahlenwerte* vol. III (Springer-Verlag, 6th ed., 1952) pp 59 and 585. Constituent of carbonate type of minerals and products of animal metabolism. Necessary for the respiration cycle of plants and animals. Obtained industrially as a by-product in the manuf of lime during the "burning" of limestone ($CaCO_3$). Also produced by burning coke or other carbonaceous material. In the U.S.A. large amounts are produced by fermentation (Backus process and Reich process). When glucose is fermented by yeast, the chief products are ethyl alcohol and $CO_2$. Prepd in the laboratory by dropping acid on a carbonate: E. H. Archibald, *The Preparation of Pure Inorganic Substances* (Wiley, New York, 1932) p 196; Loomis, Walters, *J. Am. Chem. Soc.* 48, 3103 (1926). Purification: Glemser in *Handbook of Preparative Inorganic Chemistry,* G. Brauer, Ed. (Academic Press, New York, 2nd ed., 1963) p 647. Discovery of a second polymorph of dry ice: L.-G. Liu, *Nature* 303, 508 (1983). *Reviews:* E. L. Quinn, *J. Chem. Ed.* 7, 151-162 and 403-419 (1930); J. Kuprianoff, *Die feste Kohlensäure (Trockeneis)* (Enke, Stuttgart, 1939); E. L. Quinn, C. L. Jones, *Carbon Dioxide* (Reinhold, New York, 1947); W. R. Ballou, in Kirk-Othmer *Encyclopedia of Chemical Technology* vol. 4 (Interscience, New York, 3rd ed., 1978) pp 725-742.

Colorless, odorless, noncombustible gas. Faint acid taste. Usually a nonsupporter of combustion, athough burning magnesium continues to burn when transferred into a $CO_2$ atm. Usually marketed in steel cylinders (under sufficient pressure to keep it liquid) or in solid form as *Dry Ice* (compressed carbon dioxide snow, d 1.35). When shipped in steel cylinders, $CO_2$ is in the form of gas over liquid and at 20° exerts a pressure of 830 psi. Use gloves when handling dry ice, as its temp is at least −78.5°; momentary skin contact with dry ice has caused serious frostbites and blisters. At atmospheric pressures the solid form changes into the gaseous phase without liquefaction. d (gas) 1.527 (air = 1); d (gas) 1.557 ($N_2$ = 1); abs d 0.1146 lb/cu ft at 25°; vol at 25°: 8.76 cu ft/lb. d (gas, 0°) 1.976 g/l at 760 mm; d (liq, 0°) 0.914 at 34.3 atm; d (solid, −56.6°) 1.512. Sublimes at −78.48° (760 mm). $mp_{5.2\ atm}$ −56.6°. The gas is not affected by heat until temp reaches about 2000°. Crit temp 31.3°; crit press 72.9 atm; crit density 0.464. Triple point −56.6° at 5.11 atm. Vapor press at −120°: 10.5 mm; at −100°: 104.2 mm; at −82°: 569.1 mm. Heat of formation 94.05 kcal/mol. Latent heat of vaporization 83.12 g cal/g. Specific heat 0.19 to 0.21 Btu/lb. Soly in water (ml $CO_2$/100 ml $H_2O$ at 760 mm): 0° = 171; 20° = 88; 60° = 36. More sol at higher pressures. Less sol in alcohol, other neutral organic solvents. Absorbed by alkaline solns with the formation of carbonates.

*Caution:* Potential symptoms of overexposure are headache, dizziness, restlessness and paresthesia; dyspnea; sweating, malaise; increased heart rate and pulse pressure; elevated blood pressure; coma; asphyxia; convulsions at high concentrations; frostbite (dry ice). *See NIOSH Pocket Guide to Chemical Hazards* (DHHS/NIOSH 90-117, 1990) p 58.

USE: In the carbonation of beverages; manuf of carbonates; in fire prevention and extinction; for inerting flammable materials during manuf, handling and transfer; as propellant in aerosols; as dry ice for refrigeration; to produce harmless smoke or fumes on stage; as rice fumigant; as antiseptic in bacteriology and in the frozen food industry.
THERAP CAT: Respiratory stimulant.
THERAP CAT (VET): Respiratory stimulant (inhalant).

**1858. Carbon Diselenide.** *Carbon selenide.* $CSe_2$; mol wt 169.93. C 7.07%, Se 92.93%. Prepd by the action of methylene chloride vapor on heated selenium: Ives *et al., J. Chem. Soc.* 1947, 1080; or from a mixture of $CCl_4$ and $H_2Se$ in a stream of $N_2$ at 500°: Grimm, Metzger, *Ber.* 69, 1356 (1936); from the elements by electrical discharge on Se vapor in the presence of sugar charcoal: Steudel, *Z. Anorg. Allgem. Chem.* 361, 195 (1968).

Light-sensitive, golden yellow, strongly refractive, liquid. Odor of rotten radishes. Turns brown to black on storage. $d_4^{20}$ 2.6824; $d_4^{25}$ 2.6626. mp −45.5°. bp 125-126°; $bp_{5.8}$ 10.0°. $n_D^{20}$ 1.845. Heat of formation: 34 kcal/mol. Miscible with carbon tetrachloride, carbon disulfide, toluene, other organic solvents. Practically insol in water. Dec by alc, pyridine.

**1859. Carbon Disulfide.** Carbon bisulfide; dithiocarbonic anhydride. $CS_2$; mol wt 76.14. C 15.77%, S 84.23%. Minute amounts occur in coal tar and in crude petroleum. Prepd on an industrial scale by heating charcoal with vaporized sulfur; from sulfur and natural gas: Faith, Keyes & Clark's *Industrial Chemicals,* F. A. Lowenheim, M. K. Moran, Eds. (Wiley-Interscience, New York, 4th ed., 1975) pp 224-229. Laboratory purification: Glemser in *Handbook of Preparative Inorganic Chemistry* vol. 1, G. Brauer, Ed. (Academic Press, New York, 2nd ed., 1963) p 652. Review of production and uses: Bushell, *Chem. & Ind.*

*(London)* **1961**, 1465; R. W. Timmerman in Kirk-Othmer *Encyclopedia of Chemical Technology* vol. 4 (Wiley-Interscience, New York, 3rd ed., 1978) pp 742-757.

Highly refractive, mobile, very flammable liq. *Poisonous!* The purest distillates ever obtained are reported to have a sweet, pleasing, and ethereal odor, while the usual commercial and reagent grades are foul smelling. Dec on standing for a long time. Burns with a blue flame to $CO_2$ and $SO_2$. *Acute fire and explosion hazard,* can be ignited by hot steam pipes. Flash pt, closed cup: −30°. Ignition pt: 100°. Explosive range: 1 to 50% (v/v) in air. $d_4^0$ 1.29272; $d_4^{15}$ 1.27055; $d_4^{20}$ 1.2632; $d_4^{30}$ 1.24817. Vapors sink to the ground. Vapor density 2.67 (air = 1). mp −111.6°. $bp_{1.0}$ −73.8°; $bp_{10}$ −44.7°; $bp_{100}$ −5.1°; $bp_{608}$ +28.0°; $bp_{760}$ +46.5°; $bp_{(2\ atm)}$ +69.1°; $bp_{(5\ atm)}$ +104.8°. Crit temp 280.0°; crit press. 72.9 atm. $n_D^{15}$ 1.63189; $n_D^{20.1}$ 1.62803; $n^{23.5}$ 1.62543. Surface tension at 20°: 32.25. Coefficient of viscosity at 20°: 0.363. Heat of vaporization at bp: 84.1 cal/g. Heat of fusion: 1.049 kcal/mole. Heat capacity at 24.3°: 18.17 cal/mole/deg: Brown, Manov, *J. Am. Chem. Soc.* **59**, 500 (1937). Ebullioscopic constant: 2.35°. Dielectric constant at low frequencies: 2.641. Dipole moment: 0.0. Soly in water at 20°: 0.294%. Soly of water in $CS_2$: <0.005%. Azeotrope with water bp 42.6°, contains 97.2% $CS_2$. Misc with anhydr methanol, ethanol, ether, benzene, chloroform, carbon tetrachloride, oils. Can be stored in iron, aluminum, glass, porcelain, Teflon.

*Caution:* Poisoning usually occurs from inhalation but also may be caused by ingestion and skin absorption. *Acute Toxicity:* euphoria, restlessness, mucous membrane irritation, nausea, vomiting, unconsciousness, terminal convulsions. *Chronic Toxicity:* marked psychic disturbances ranging from extreme irritability to mania with hallucinations, tremors, auditory and visual disturbances, weight loss, blood dyscrasias. Dermal contact with concd solns may cause burning pain, erythema, exfoliation. *See: Clinical Toxicology of Commercial Products.* R. E. Gosselin *et al.*, Eds. (Williams & Wilkins, Baltimore, 4th ed., 1976) Section III, pp 83-86.

USE: In the manuf of rayon, carbon tetrachloride, xanthogenates, soil disinfectants, electronic vacuum tubes. Solvent for phosphorus, sulfur, selenium, bromine, iodine, fats, resins, rubbers.

**1860. Carbonic Anhydrase.** *Carbonate dihydratase;* carbonate hydro-lyase. Mol wt ~30,000. A small zinc-contg enzyme which catalyzes the hydration of $CO_2$. Found in higher concns in erythrocytes, renal cortex, and gastric mucosa of mammals; also found in other animal tissues, in plants and in some bacteria. Isoln from bovine erythrocytes: Lindskog, *Biochim. Biophys. Acta* **39**, 218 (1960); from human erythrocytes: Nyman, *ibid.* **52**, 1 (1961); from renal cortex: Höber, *Proc. Soc. Exp. Biol. Med.* **49**, 87 (1942); from gastric mucosa: Davenport, *Physiol. Rev.* **26**, 560 (1946). Human carbonic anhydrase consists of two isoenzymes with distinctly different amino acid sequences and specific activities. The high activity form is called carbonic anhydrase C; the low activity form is called B; modified forms of these two isoenzymes exist: Funakoshi, Deutsch, *J. Biol. Chem.* **243**, 6474 (1968); **244**, 3438 (1969). Amino acid sequence of carbonic anhydrase B: Anderson *et al.*, *Biochem. Biophys. Res. Commun.* **48**, 670 (1972); Lin, Deutsch, *J. Biol. Chem.* **248**, 1885 (1973); sequence of carbonic anhydrase C: Henderson, Henriksson, *Biochem. Biophys. Res. Commun.* **52**, 1388 (1973); Lin, Deutsch, *J. Biol. Chem.* **249**, 2329 (1974). Crystal structure of carbonic anhydrase C: Liljas *et al.*, *Nature New Biol.* **235**, 131 (1972). Catalyzes the reversible reaction of $CO_2$ and $H_2O$ to $HCO_3^-$ and $H^+$. Permits CO interchange between blood and tissues. In gastric mucosa, reaction rate is sufficient to neutralize the excess alkalinity produced by the ionization of water and secretion of hydrogen ions: Roughton, Clark in *The Enzymes* vol. 1, part 2, J. B. Sumner, K. Myrbäck, Eds. (Academic Press, New York, 1951) pp 1250-1265. In the kidney, participates in $Na^+$ transport. Review of physiology: Maren in *Oxygen Affinity of Hemoglobin and Red Cell Acid Base Status. Alfred Benzon Symposium* IV, P. Astrup, M. Roerth, Eds. (Academic Press, New York, 1972) pp 418-433. Review of metal ion function: Prince, Woolley, *Angew. Chem. Int. Ed.* **11**, 408-417 (1972). *Review:* Lindskog *et al.*, "Carbonic Anhydrase" in *The Enzymes*, vol. 1, P. D. Boyer, Ed. (Academic Press, New York, 1971) 587-665.

**1861. Carbon Monoxide.** CO; mol wt 28.01. C 42.88%, O 57.12%. Produced on an industrial scale by partial oxidation of hydrocarbon gases from natural gas or the gasification of coal and coke. Conveniently prepd in the laboratory by heating calcium carbonate with Zn: Weinhouse, *J. Am. Chem. Soc.* **70**, 442 (1948); by dehydration of formic acid with $H_2SO_4$: Gilliland, Blanchard, *Inorg. Syn.* **2**, 81 (1946). Purification of carbon monoxide by [illegible] in steel cylinders: A. Klemenc, *Die Behandlung und Darstellung von Gasen* (Vienna, 1948) p 160; Glemser, *Handbook of Preparative Inorganic Chemistry* vol. 1, Brauer, Ed. (Academic Press, New York, 2nd ed., 1963) p 646. Review of toxic effects in humans: Stewart, *Ann. Rev. Biochem.* **15**, 409-423 (1975). *Review:* C. M. Bartish, G. M. Drissel in Kirk-Othmer *Encyclopedia of Chemical Technology* vol. 4 (Wiley-Interscience, New York, 3rd ed., 1978) pp 772-793.

Highly poisonous, odorless, colorless, tasteless gas. Very flammable, burns in air with a bright blue flame. Ignition pt in air: 700°. mp −205.0°. bp −191.5°. $d_4^{-195}$ (liq) 0.814; d (gas) 0.968 (air = 1.000). $d_4^0$ at 760 mm: 1.250 g/liter. The top pressure is 1500 psi. Flammable limits in air: 12.5-75 vol %. Crit press 35 atm, crit temp −139°. Heat capacity at 20°: 6.95 cal/mole/°C. Heat value per $m^3$: 3033 kcal. Heat of formation: −26.39 kcal/mol. Dec into carbon and carbon dioxide between 400 and 700°, at lower temp when in contact with catalytic surfaces. Above 800° the equilibrium reaction favors CO formation. Hopcalite, a mixture of the oxides of manganese and copper, catalyzes the decomp at room temp, as does Pd on silica gel. Sparingly sol in water: 3.3 ml/100 ml $H_2O$ at 0°; 2.3 ml/100 ml $H_2O$ at 25°. Is freely absorbed by a concd soln of cuprous chloride in HCl or in $NH_4OH$. Appreciably sol in some organic solvents such as ethyl acetate, $CHCl_3$, acetic acid. The soly in methanol and ethanol is about 7 times as great as the soly in water.

*Caution:* Combines with the hemoglobin of the blood to form carboxyhemoglobin which is useless as an oxygen carrier. *Toxic symptoms:* Headache, mental dullness, dizziness, weakness, nausea, vomiting, loss of muscular control, increased then decreased pulse and respiratory rates, collapse, unconsciousness, death. *Antidote:* Oxygen. See Patty's *Industrial Hygiene and Toxicology* vol. 2C, G. D. Clayton, F. E. Clayton, Eds. (Wiley-Interscience, New York, 3rd ed., 1982) pp 4114-4124.

USE: As reducing agent in metallurgical operations especially in the Mond process for the recovery of nickel; in organic synthesis especially in the Fischer-Tropsch processes for petroleum-type products and in the oxo reaction; in the manuf of metal carbonyls.

**1862. Carbon Nitride.** $C_3N_4$; mol wt 92.06. C 39.14%, N 60.86%. Covalent crystalline solid which exists in two forms $\alpha$ and $\beta$. $\beta$-form may be harder than diamond. Model of structure and hardness: A. Y. Liu, M. L. Cohen, *Science* **245**, 841 (1989). Synthesis: E. E. Haller *et al.*, PCT Int. pat. Appl. 91 16,196; *eidem.* U.S. pat. 5,110,679 (1990, 1992 both to Regents U. California, Berkeley); C. Niu *et al.*, *Science* **261**, 334 (1993). Hardness evaluation: O. Pukunaga, *Kagaku to Kyoiku* **41**, 325 (1993), *C.A.* **119**, 54572 (1993).

**1863. Carbon Suboxide.** *1,2-Propadiene-1,3-dione;* carbon dioxide. $C_3O_2$; mol wt 68.03. C 52.96%, O 47.04%. O=C=C=C=O. Prepn by thermal decompn of malonic acid: Glemser in *Handbook of Preparative Inorganic Chemistry,* vol. 1, G. Brauer, Ed. (Academic Press, New York, 2nd ed., 1963) p 648. Reactions in organic synthesis: Dashkevich, Beilin, *Russ. Chem. Rev.* **36**, 391 (1967). Comprehensive reviews: Reyerson, Kobe, *Chem. Rev.* **7**, 475 (1930); Vol'kenshtein, *Uspeki Khim.* **4**, 610 (1935); Gross, *Chimia* **14**, 11 (1960); T. Kappe, E. Ziegler, *Angew. Chem. Int. Ed.* **13**, 491-504 (1974), reprinted in *New Synthetic Methods* vol. 1 (Verlag Chemie, Weinheim, 1975) pp 29-[illegible].

Colorless, highly refractive liquid or colorless gas which burns with a blue, sooty flame. Odor like acrolein and mustard oil. mp −111.3°. $bp_{760}$ 6.8°; $d_4^0$ 1.114. $n_D^0$ 1.4530

Uses: Reagent for iron; manufacture of thioglycolates, permanent wave solutions and depilatories; vinyl stabilizer; manufacture of pharmaceuticals.
Shipping regulations: (Rail, Air) Corrosive label.

**2-thiohydantoin** (glycolylthiourea) $NHC(S)NHC(O)CH_2$.
Properties: Crystals or tan powder. M.p. 230° C. Slightly soluble in water; insoluble in alcohols and ethers.
Purity: 99% min.
Use: Intermediate for pharmaceuticals, rubber accelerators, copper plating brighteners and dyestuffs.

**2-thio-4-keto-thiazolidine.** See rhodanine.

**"Thiokol."**[27] Trademark for a series of polysulfide elastomers in the form of liquids, water dispersions and millable (dry) rubbers. Combustible. Characterized by almost 100% resistance to solvents, particularly hydrocarbons, but has relatively low tensile strength.
Uses: Sealants for gasoline tanks; sealer adhesive for machine components; potting and sealing electrical parts; caulking ship decks and buildings; flexibilizing constituent of resin-based adhesives; paint spray and gasoline hose; oil suction and discharge hose; rocket propellant binder.

**thiol** (mercaptan). Any of a group of organic compounds resembling alcohols, but having the oxygen of the hydroxyl group replaced by sulfur, as in ethanethiol ($C_2H_5SH$). Many thiols are characterized by strong and repulsive odors.
Hazard: Aliphatic thiols are flammable and toxic by inhalation.
Uses: Warning agents in fuel gas lines; chemical intermediates. See also specific compound.
Shipping regulations: (Mercaptan mixtures, aliphatic) (Rail, Air) Flammable Liquid label.
*Note:* Adoption of the name "thiol" to replace "mercaptan" has been officially approved as more consistent with the molecular constitution of these compounds. The older term, which literally means "mercury-seizing", is inappropriate.

**thiomalic acid** (mercaptosuccinic acid) $HOOCCH(SH)CH_2COOH$.
Properties: White crystals or powder; sulfuric odor; m.p. 149–150° C; soluble in water, alcohol, acetone, and ether; slightly soluble in benzene. Low toxicity; combustible.
Use: Biochemical research; intermediate; rust inhibitor; antidarkening agent for crepe rubber; tackifier for synthetic rubber.

**thionazin.** Generic name for O,O-diethyl-O-2-pyrazinyl phosphorothioate
$NCHCHNCHCOPS(C_2H_5O)_2$.
Properties: Amber liquid; m.p. −1.7° C; b.p. 80° C (.001 mm). Slightly soluble in water; miscible with most organic solvents.
Hazard: Toxic by ingestion, inhalation and skin absorption. Cholinesterase inhibitor.
Uses: Insecticide; fungicide; nematocide.
Shipping regulations: (Rail, Air) Organic phosphates, liquid, n.o.s. Poison label. Not accepted passenger.

**"Thionex."**[28] Trademark for tetramethylthiuram monosulfide. $[(CH_3)_2NCH]_2S$.
Properties: Lemon yellow powder or grains; sp. gr. 1.39; m.p. not lower than 105° C.
Use: Ultra-accelerator for rubber.
See also "Monex."

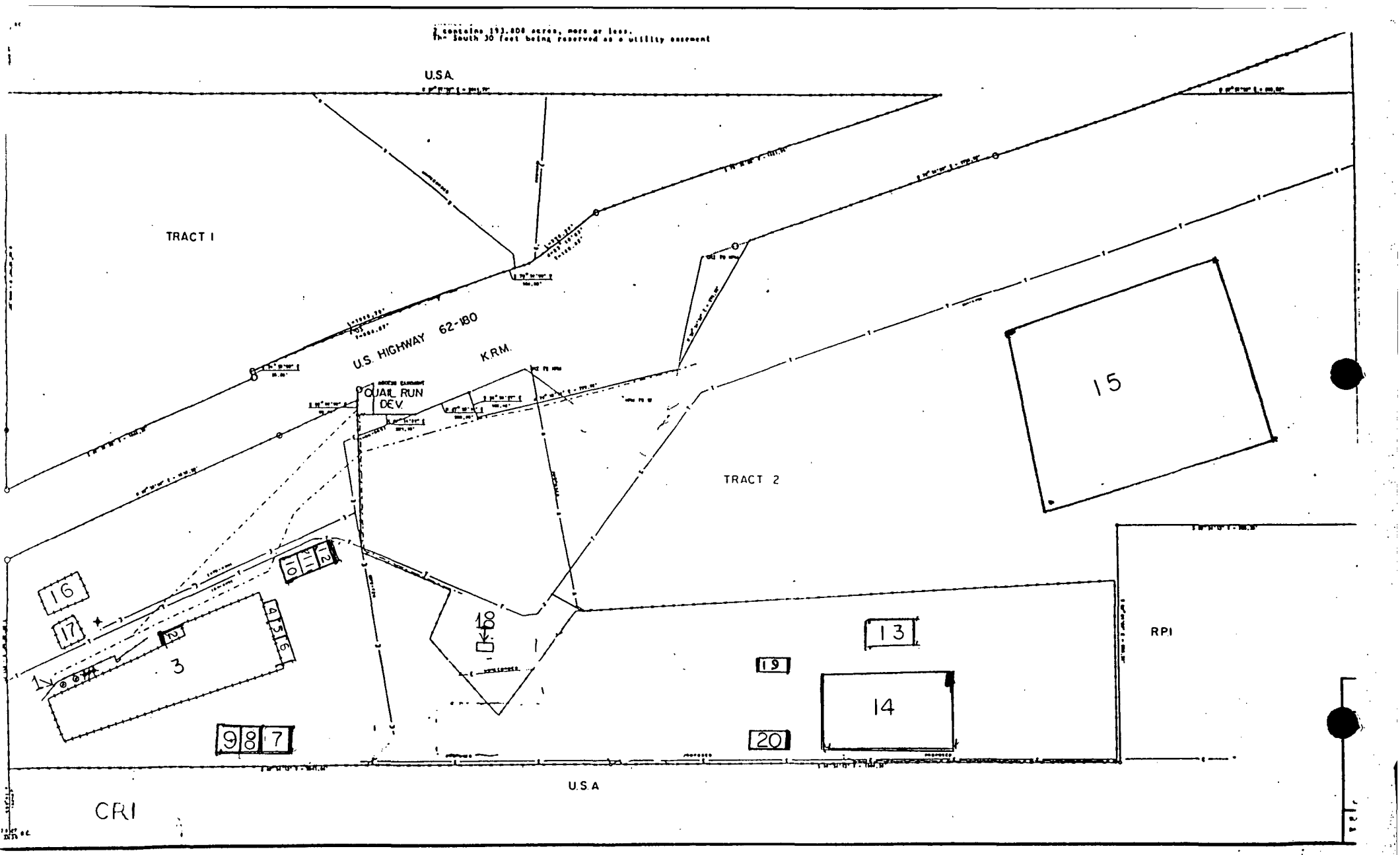
**thionyl chloride** (sulfurous oxychloride; sulfur oxychloride) $SOCl_2$.
Properties: Pale yellow to red fuming liquid with suffocating odor; sp. gr. 1.638; f.p. −105° C; b.p. 79° C; decomposes at 140° C. Decomposes (fumes) in water; soluble in benzene, carbon tetrachloride.
Grades: 93%, 97.5%.
Containers: Glass carboys; drums.
Hazard: Toxic; strong irritant to skin and tissue.
Uses: Pesticides; engineering plastics; chlorinating agent; catalyst.
Shipping regulations: (Rail, Air) Corrosive label. Not acceptable passenger.

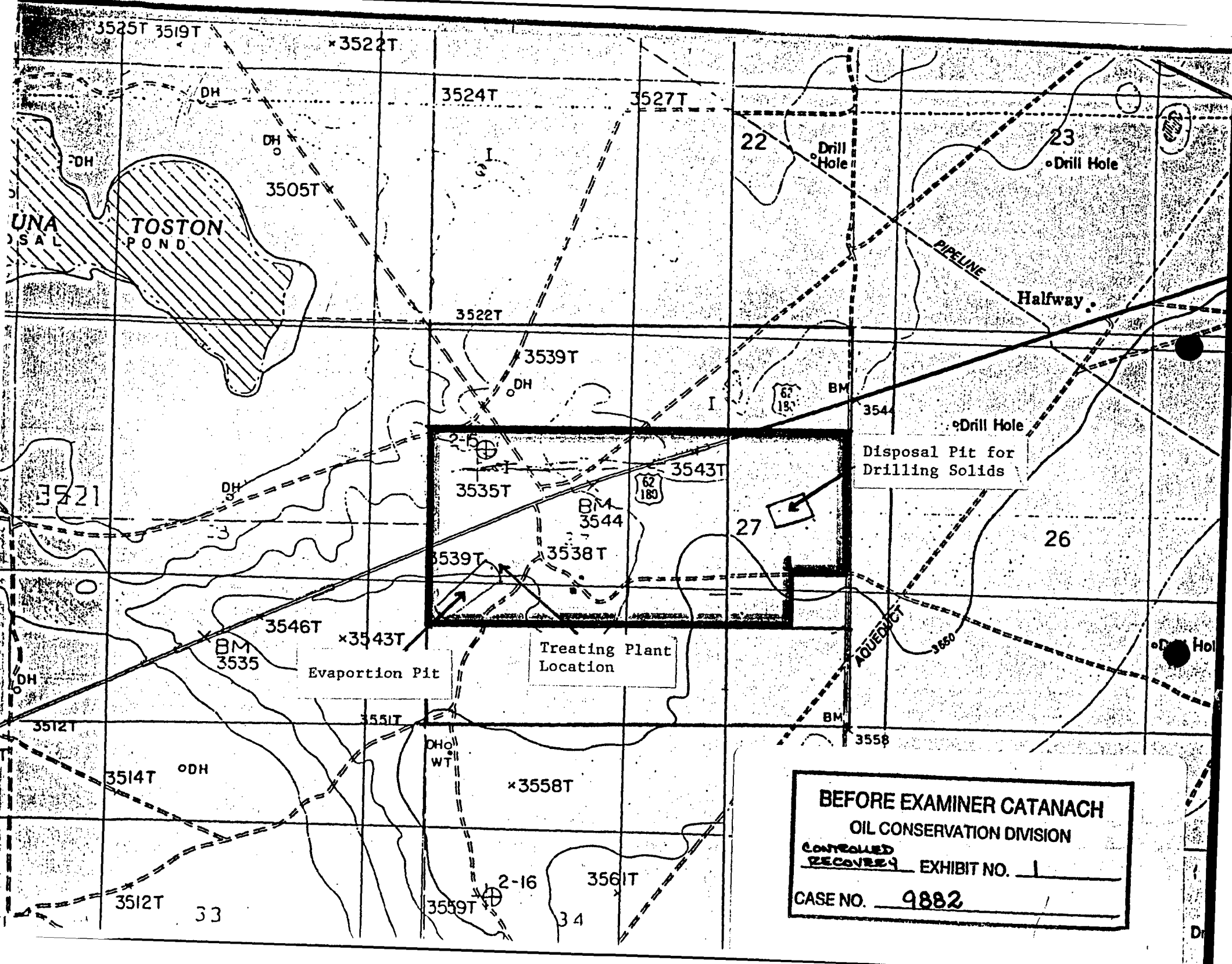
**thiopental sodium** ("Pentothal"; "Sodium Pentothal"). A rapidly acting barbiturate administered intravenously for general anesthesia and hypnosis. Commonly known as "truth serum". Its chemical name is sodium 5-ethyl-5(1-methylbutyl)-2-thiobarbiturate ($C_{11}H_{17}N_2O_2SNa$). May cause respiratory failure; should be used only with physician in attendance.

**thiophane.** See tetrahydrothiophene.

**thiophene** (thiofuran) $CHCHCHCHS$. A cyclic organosulfur; highly reactive.
Properties: Colorless liquid; refractive index (n 20/D) 1.5285; sp. gr. 1.0644 (20°/4° C); f.p. −38.5° C; b.p. 84° C; flash point 30° F (−1.1° C). Soluble in alcohol and ether; insoluble in water.
Derivation: From coal tar (benzene fraction) and petroleum; synthetically from heating sodium succinate with phosphorus trisulfide.
Hazard: Flammable, dangerous fire risk. Moderately toxic.
Use: Organic synthesis (condenses with phenol and formaldehyde; copolymerizes with maleic anhydride); solvent; dye and pharmaceutical mfg.
Shipping regulations: Flammable liquid, n.o.s., (Rail, Air) Flammable Liquid label.

**alpha-thiophenealdehyde** $C_4H_3SCHO$. (2-Thiophenecarboxaldehyde).
Properties: Oily liquid with almond-like odor; b.p. 198° C, 90° C (20 mm); sp. gr. 1.210–1.220; very soluble in alcohol, benzene, ether; slightly soluble in water. Combustible.
Grade: 95%.
Containers: Drums.
Uses: Thiophene derivatives; introducing thenyl group into organic compounds.


U.S.A.
TRACT 1
U.S. HIGHWAY 62-180
K.R.M.
QUAIL RUN DEV.
TRACT 2
15
16
17
3
10
1
13
19
14
20
9 8 7
RPI
U.S.A
CR1




BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
CONTROLLED RECOVERY EXHIBIT NO. 1
CASE NO. 9882

Photo 1 Sample number 0616001505
Non-Exempt Pit 11

Photo 4 Sample number 0616001600
Landfill Pit 1

Photo 2 Sample number 0616001520
Non-Exempt Pit 12

Photo 45 Sample number 0616001630
Landfill Pit 3

Photo 3 Sample number 0616001600
Truck tracks at Landfill Pit 1

Photo 6 Sample number 0616001630
Landfill Pit 3

Photo 7 Sample number 0616001700
Navajo Solids Landfill Pit.

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
4725 Ripley Avenue, Suite A El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

July 03, 2000
Receiving Date: 06/20/2000
Sample Type: Liquid
Project No: CRI
Project Location: CRI Halfway

ANALYTICAL RESULTS FOR
NEW MEXICO OIL CONSERVATION DIVISION
Attention: Wayne Price
2040 South Pacheco
Santa Fe, NM 87505

Prep Date: 06/21/2000
Analysis Date: 06/21/2000
Sampling Date: 06/16/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

| TA# | Field Code | REACTIVITY | SULFIDES (ppm) | CYANIDES (ppm) | CORROSIVITY (mm/yr) | pH (s.u.) |
|---|---|---|---|---|---|---|
| | EPA LIMIT = | --- | 500 | 250 | >6.5 mm/yr | <2 >12.5 |
| T148447 | 0616001600 | Reactive | 130 | 550 | Corrosive | 14 |
| QC | Quality Control | --- | --- | --- | --- | 7.0 |
| RPD | | 0 | 0 | 0 | 0 | 0 |
| % Extraction Accuracy | | --- | --- | --- | --- | --- |
| % Instrument Accuracy | | --- | --- | --- | --- | 100 |

METHODS: EPA SW 846-Chapter 7 7.3, Chapter 7 7.2.
CHEMIST: MS

Director, Dr. Blair Leftwich

7-3-00
DATE

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NEW MEXICO OIL CONSERVATION DIVISION
Attention: Wayne Price
2040 South Pacheco
Santfa Fe, NM 87505

July 03, 2000
Receiving Date: 06/20/2000
Sample Type: Sludge
Project No: CRI
Project Location: CRI Halfway

Lab Receiving #: A00062026
Prep Date: 06/21/2000
Analysis Date: 06/21/2000
Sampling Date: 06/16/2000
Sample Condition: Intact and Cool
Sample Received by: VH
Project Name: NA

| TA# | FIELD CODE | IGNITABILITY |
|---|---|---|
| T148445 | 0616001505 | Nonignitable |
| T148446 | 0616001520 | Nonignitable |
| T148448 | 0616001700 | Nonignitable |

RPD 0

METHODS: EPA SW 846-Chapter 7 7.1.
CHEMIST: MS

Director, Dr. Blair Leftwich

7-3-00
DATE

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E-Mail: lab@traceanalysis.com

ANALYTICAL RESULTS FOR
NEW MEXICO OIL CONSERVATION DIVISION
Attention: Wayne Price
2040 South Pacheco
Santa Fe, NM 87505

July 03, 2000
Receiving Date: 06/20/2000
Sample Type: Liquid
Project No: CRI
Project Location: CRI Halfway

Sampling Date: 06/16/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

**TOTAL METALS (mg/L)**

| TA# | Field Code | As | Ba | Cd | Cr | Pb | Se | Ag | Hg |
|---|---|---|---|---|---|---|---|---|---|
| T148447 | 0616001600 | <1.0 | 1.7 | <0.20 | <0.50 | <1.0 | <1.0 | <0.50 | 0.00057 |
| ICV | | 2.50 | 5.10 | 0.50 | 1.01 | 2.53 | 2.54 | 0.51 | 0.00092 |
| CCV | | 2.44 | 5.0 | 0.49 | 0.99 | 2.48 | 2.48 | 0.49 | 0.00092 |
| Reporting Limit | | 1.0 | 1.0 | 0.20 | 0.50 | 1.0 | 1.0 | 0.50 | 0.0002 |
| RPD | | 12 | 5 | 0 | 3 | 2 | 1* | 10 | 8 |
| % Extraction Accuracy | | 82 | 101 | 95 | 92 | 94 | 100* | 100 | 120 |
| % Instrument Accuracy | | 98 | 100 | 98 | 99 | 99 | 99 | 98 | 92 |
| EXTRACTION DATE | | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/29/2000 |
| ANALYSIS DATE | | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/29/2000 |

*NOTE: Poor recovery of MS for Se due to matrix difficulties. LCS demonstrates process under control.

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: JM
METHODS: EPA SW 846-3010A, 6010B, 7470A.
TOTAL METALS SPIKE: 10 mg/L As, Pb; 20 mg/L Ba; 2.0 mg/L Cd, Ag; 4.0 mg/L Cr; 8.0 mg/L Se; 0.0010 mg/L Hg.
TOTAL METALS CV: 2.5 mg/L As, Pb, Se; 5.0 mg/L Ba; 0.50 mg/L Cd, Ag; 1.0 mg/L Cr; 0.0010 mg/L Hg.

BR 7-3-00

Director, Dr. Blair Leftwich Date

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E-Mail: lab@traceanalysis.com

July 03, 2000
Receiving Date: 06/20/2000
Sample Type: Sludge
Project No: CRI
Project Location: CRI Halfway

ANALYTICAL RESULTS FOR
NEW MEXICO OIL CONSERVATION DIVISION
Attention: Wayne Price
2040 South Pacheco
Santa Fe, NM 87505

Sampling Date: 06/16/2000
Sample Condition: Intact & Cool
Sample Received by: VH
Project Name: NA

**TOTAL METALS (mg/kg)**

| TA# | Field Code | As | Ba | Cd | Cr | Pb | Se | Ag | Hg |
|---|---|---|---|---|---|---|---|---|---|
| T148445 | 0616001505 | <5.0 | 52 | <2.0 | <5.0 | 8.9 | <5.0 | <2.0 | <0.19 |
| T148446 | 0616001520 | <5.0 | 187 | <2.0 | 8.0 | 31 | <5.0 | <2.0 | <0.19 |
| T148448 | 0616001700 | <5.0 | <5.0 | <2.0 | <5.0 | 44 | <5.0 | <2.0 | <0.19 |
| T148449 | 0616001630 | 16 | 410 | 2.7 | 70 | 155 | <5.0 | <2.0 | 3.37 |
| ICV | | 2.55 | 5.18 | 0.52 | 1.03 | 2.58 | 2.59 | 0.51 | 0.00551 |
| CCV | | 2.50 | 5.10 | 0.50 | 1.01 | 2.53 | 2.54 | 0.51 | 0.00547 |
| Reporting Limit | | 5.0 | 5.0 | 2.0 | 5.0 | 5.0 | 5.0 | 2.0 | 0.19 |
| RPD | | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 0 |
| % Extraction Accuracy | | 92 | 99 | 100 | 105 | 93 | 82 | 95 | 115 |
| % Instrument Accuracy | | 100 | 102 | 100 | 101 | 101 | 102 | 102 | 110 |
| EXTRACTION DATE | | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/21/2000 | 06/29/2000 |
| ANALYSIS DATE | | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/26/2000 | 06/29/2000 |

CHEMIST: As, Se, Cd, Cr, Pb, Ag, Ba: RR Hg: JM
METHODS: EPA SW 846-3050B, 6010B, 7471A.
TOTAL METALS SPIKE: 100 mg/kg As, Pb, Se; 200 mg/kg Ba; 20 mg/kg Cd, Ag; 40 mg/kg Cr; 2.5 mg/kg Hg.
TOTAL METALS CV: 2.5 mg/L As; 5.0 mg/L Ba; 0.50 mg/L Cd, Ag; 1.0 mg/L Cr; 2.50 mg/L Pb, Se; 0.005 mg/L Hg.

BB 7-3-00

Director, Dr. Blair Leftwich Date

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E-Mail: lab@traceanalysis.com

# Analytical and Quality Control Report

Wayne Price
OCD
2040 S. Pacheco
Santa Fe, NM 87505

Report Date: 7/3/00

Project Number: CRI
Project Name: N/A
Project Location: CRI Halfway

Order ID Number: A00062026

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

| Sample Number | Sample Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 148449 | 0616001630 | Sludge | 6/16/00 | 16:30 | 6/20/00 |
| 148450 | Trip Blank #1 | Water | 6/16/00 | - | 6/20/00 |
| 148454 | Trip Blank #2 | Water | 6/16/00 | - | 6/20/00 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Chlorotoluene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2,3-Trichloropropane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Isopropylbenzene | 3034 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromobenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| n-Propylbenzene | 7424 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3,5-Trimethylbenzene | 10751 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| tert-Butylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2,4-Trimethylbenzene | 44694 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,4-Dichlorobenzene (para) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| sec-Butylbenzene | 1950 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3-Dichlorobenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| p-Isopropyltoluene | 1513 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 4-Chlorotoluene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichlorobenzene (ortho) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| n-Butylbenzene | 2018 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dibromo-3-chloropropane | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| 1,2,3-Trichlorobenzene | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| 1,2,4-Trichlorobenzene | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| Naphthalene | * 16420 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Hexachlorobutadiene | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |

* Toluene - estimated concentration, response above standard range

* m,p-Xylene - estimated concentration, response above standard range

* Naphthalene - RSD value exceeds above 15% on initial calibration

| Surrogate (µg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 46.36 | 1 | 50 | 93 | 69 - 116 | JG | PB02970 | QC03449 |
| Toluene-d8 | 50.27 | 1 | 50 | 101 | 80 - 120 | JG | PB02970 | QC03449 |
| 4-Bromofluorobenzene | 50.23 | 1 | 50 | 100 | 80 - 120 | JG | PB02970 | QC03449 |

| 8270 (mg/Kg) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pyridine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodimethylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Picoline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Methyl methanesulfonate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Ethyl methanesulfonate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Aniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethyl) ether | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,3-Dichlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,4-Dichlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzyl alcohol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2-Dichlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroisopropyl) ether | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Methylphenol/3-Methylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acetophenone | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodi-n-propylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachloroethane | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Nitrobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosopiperidine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Isophorone | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitrophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dimethylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethoxy) methane | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

# Analytical Results Report

Sample Number: 148449
Description: 0616001630

| Param | Result | Dilution | Analytical Method | Date Prepared | Date Analyzed | Analyst | Prep Batch # | QC Batch # | RDL |
|---|---|---|---|---|---|---|---|---|---|
| 8260 (µg/Kg) | | | | | | | | | |
| Bromochloromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dichlorodifluoromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chloromethane (methyl chloride) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Vinyl Chloride | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromomethane (methyl bromide) | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| Chloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Trichlorofluoromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Acetone | <5000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| Iodomethane (methyl iodide) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Carbon Disulfide | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Acrylonitrile | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Butanone (MEK) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 4-methyl-2-pentanone (MIBK) | <5000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| 2-hexanone | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans 1,4-Dichloro-2-butene | <5000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| 1,1-Dichloroethene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Methylene chloride | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| MTBE | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans-1,2-Dichloroethene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1-Dichloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| cis-1,2-dichloroethene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2,2-Dichloropropane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichloroethane (EDC) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chloroform | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,1-Trichloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1-Dichloropropene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Benzene | 38978 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Carbon Tetrachloride | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichloropropane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Trichloroethene (TCE) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dibromomethane (methylene bromide) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromodichloromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Chloroethyl vinyl ether | <5000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| cis-1,3-Dichloropropene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans-1,3-Dichloropropene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Toluene | * 134733 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,2-Trichloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3-Dichloropropane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dibromochloromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dibromoethane (EDB) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Tetrachloroethene (PCE) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chlorobenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,1,2-Tetrachloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Ethylbenzene | 32141 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| m,p-Xylene | * 102023 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromoform | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Styrene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| o-Xylene | 49035 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |

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|---|---|---|---|---|---|---|---|---|---|
| Benzoic acid | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dichlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4-Trichlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| a,a-Dimethylphenethylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Naphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloroaniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dichlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobutadiene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitroso-di-n-butylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloro-3-methylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Methylnaphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylnaphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4,5-Tetrachlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorocyclopentadiene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,6-Trichlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,5-Trichlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chloronaphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Chloronaphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitroaniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dimethylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthylene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dinitrotoluene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Nitroaniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzofuran | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitrophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Napthylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrotoluene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Napthylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,3,4,6-Tetrachlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluorene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diethylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chlorophenyl-phenylether | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitroaniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4,6-Dinitro-2-methylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylhydrazine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Bromophenyl-phenylether | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenacetin | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Aminobiphenyl | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachloronitrobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pronamide | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenanthrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Anthracene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-butylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluoranthene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzidine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pyrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| p-Dimethylaminoazobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Butylbenzylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)anthracene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3,3-Dichlorobenzidine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

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|---|---|---|---|---|---|---|---|---|---|
| Chrysene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Bis (2-ethylhexyl) phthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-octylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(b)fluoranthene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 7,12-Dimethylbenz(a)anthracene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(k)fluoranthene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)pyrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Methylcholanthrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,j)acridine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Indeno(1,2,3-cd)pyrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,h)anthracene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(g,h,i)perylene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| Surrogate (mg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 43.00 | 6000 | 80 | 54 | 8 - 73 | MA | PB02992 | QC03472 |
| Phenol-d5 | 46.84 | 6000 | 80 | 59 | 8 - 62 | MA | PB02992 | QC03472 |
| Nitrobenzene-d5 | 94.83 | 6000 | 80 | 119 | 45 - 111 | MA | PB02992 | QC03472 |
| 2-Fluorobiphenyl | 62.03 | 6000 | 80 | 78 | 45 - 109 | MA | PB02992 | QC03472 |
| 2,4,6-Tribromophenol | 0.00 | 6000 | 80 | 0 | 39 - 132 | MA | PB02992 | QC03472 |
| Terphenyl-d14 | 63.28 | 6000 | 80 | 79 | 46 - 121 | MA | PB02992 | QC03472 |

Sample Number: 148450
Description: Trip Blank #1

| Param | Result | Dilution | Analytical Method | Date Prepared | Date Analyzed | Analyst | Prep Batch # | QC Batch # | RDL |
|---|---|---|---|---|---|---|---|---|---|
| 8260 (µg/L) | | | | | | | | | |
| Bromochloromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Dichlorodifluoromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Chloromethane (methyl chloride) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Vinyl Chloride | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Bromomethane (methyl bromide) | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| Chloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Trichlorofluoromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Acetone | <10.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 10 |
| Iodomethane (methyl iodide) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Carbon Disulfide | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Acrylonitrile | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 2-Butanone (MEK) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 4-methyl-2-pentanone (MIBK) | <10.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 10 |
| 2-hexanone | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| trans 1,4-Dichloro-2-butene | <10.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 10 |
| 1,1-Dichloroethene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Methylene chloride | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| MTBE | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| trans-1,2-Dichloroethene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1-Dichloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| cis-1,2-dichloroethene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 2,2-Dichloropropane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dichloroethane (EDC) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Chloroform | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1,1-Trichloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1-Dichloropropene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Benzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Carbon Tetrachloride | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dichloropropane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |

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|---|---|---|---|---|---|---|---|---|---|
| Trichloroethene (TCE) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Dibromomethane (methylene bromide) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Bromodichloromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 2-Chloroethyl vinyl ether | <10.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 10 |
| cis-1,3-Dichloropropene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| trans-1,3-Dichloropropene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Toluene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1,2-Trichloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,3-Dichloropropane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Dibromochloromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dibromoethane (EDB) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Tetrachloroethene (PCE) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Chlorobenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1,1,2-Tetrachloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Ethylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| m,p-Xylene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Bromoform | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Styrene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| o-Xylene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1,2,2-Tetrachloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 2-Chlorotoluene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2,3-Trichloropropane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Isopropylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Bromobenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| n-Propylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,3,5-Trimethylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| tert-Butylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2,4-Trimethylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,4-Dichlorobenzene (para) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| sec-Butylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,3-Dichlorobenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| p-Isopropyltoluene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 4-Chlorotoluene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dichlorobenzene (ortho) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| n-Butylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dibromo-3-chloropropane | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| 1,2,3-Trichlorobenzene | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| 1,2,4-Trichlorobenzene | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| Naphthalene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Hexachlorobutadiene | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |

| Surrogate (µg/L) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 45.17 | 1 | 50 | 90 | 84 - 116 | JG | PB02900 | QC03360 |
| Toluene-d8 | 47.09 | 1 | 50 | 94 | 92 - 108 | JG | PB02900 | QC03360 |
| 4-Bromofluorobenzene | 49.00 | 1 | 50 | 98 | 80 - 110 | JG | PB02900 | QC03360 |

Sample Number: 148454
Description: Trip Blank #2

| Param | Result | Dilution | Analytical Method | Date Prepared | Date Analyzed | Analyst | Prep Batch # | QC Batch # | RDL |
|---|---|---|---|---|---|---|---|---|---|
| 8260 (µg/L) | | | | | | | | | |
| Bromochloromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Dichlorodifluoromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Chloromethane (methyl chloride) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Vinyl Chloride | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bromomethane (methyl bromide) | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| Chloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Trichlorofluoromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Acetone | <10.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 10 |
| Iodomethane (methyl iodide) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Carbon Disulfide | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Acrylonitrile | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 2-Butanone (MEK) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 4-methyl-2-pentanone (MIBK) | <10.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 10 |
| 2-hexanone | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| trans 1,4-Dichloro-2-butene | <10.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 10 |
| 1,1-Dichloroethene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Methylene chloride | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| MTBE | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| trans-1,2-Dichloroethene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1-Dichloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| cis-1,2-dichloroethene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 2,2-Dichloropropane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dichloroethane (EDC) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Chloroform | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1,1-Trichloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1-Dichloropropene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Benzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Carbon Tetrachloride | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dichloropropane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Trichloroethene (TCE) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Dibromomethane (methylene bromide) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Bromodichloromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 2-Chloroethyl vinyl ether | <10.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 10 |
| cis-1,3-Dichloropropene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| trans-1,3-Dichloropropene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Toluene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1,2-Trichloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,3-Dichloropropane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Dibromochloromethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dibromoethane (EDB) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Tetrachloroethene (PCE) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Chlorobenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1,1,2-Tetrachloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Ethylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| m,p-Xylene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Bromoform | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Styrene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| o-Xylene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,1,2,2-Tetrachloroethane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 2-Chlorotoluene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2,3-Trichloropropane | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Isopropylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Bromobenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| n-Propylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,3,5-Trimethylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| tert-Butylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2,4-Trimethylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,4-Dichlorobenzene (para) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| sec-Butylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,3-Dichlorobenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |

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|---|---|---|---|---|---|---|---|---|---|
| p-Isopropyltoluene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 4-Chlorotoluene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dichlorobenzene (ortho) | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| n-Butylbenzene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| 1,2-Dibromo-3-chloropropane | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| 1,2,3-Trichlorobenzene | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| 1,2,4-Trichlorobenzene | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |
| Naphthalene | <2.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 2 |
| Hexachlorobutadiene | <5.00 | 1 | S 8260B | 6/21/00 | 6/21/00 | JG | PB02900 | QC03360 | 5 |

| Surrogate (µg/L) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 45.00 | 1 | 50 | 90 | 84 - 116 | JG | PB02900 | QC03360 |
| Toluene-d8 | 47.52 | 1 | 50 | 95 | 92 - 108 | JG | PB02900 | QC03360 |
| 4-Bromofluorobenzene | 48.67 | 1 | 50 | 97 | 80 - 110 | JG | PB02900 | QC03360 |

# Quality Control Report
## Method Blanks

| Param | Flag | Blank Result | Reporting Limit | Date Analyzed | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|
| Bromochloromethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Dichlorodifluoromethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Chloromethane (methyl chloride) (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Vinyl Chloride (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Bromomethane (methyl bromide) (µg/L) | | <5.00 | 5 | 6/21/00 | PB02900 | QC03360 |
| Chloroethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Trichlorofluoromethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Acetone (µg/L) | | <10.00 | 10 | 6/21/00 | PB02900 | QC03360 |
| Iodomethane (methyl iodide) (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Carbon Disulfide (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Acrylonitrile (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 2-Butanone (MEK) (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 4-methyl-2-pentanone (MIBK) (µg/L) | | <10.00 | 10 | 6/21/00 | PB02900 | QC03360 |
| 2-hexanone (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| trans 1,4-Dichloro-2-butene (µg/L) | | <10.00 | 10 | 6/21/00 | PB02900 | QC03360 |
| 1,1-Dichloroethene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Methylene chloride (µg/L) | | <5.00 | 5 | 6/21/00 | PB02900 | QC03360 |
| MTBE (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| trans-1,2-Dichloroethene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,1-Dichloroethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| cis-1,2-dichloroethene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 2,2-Dichloropropane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,2-Dichloroethane (EDC) (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Chloroform (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,1,1-Trichloroethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,1-Dichloropropene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Benzene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Carbon Tetrachloride (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,2-Dichloropropane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Trichloroethene (TCE) (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Dibromomethane (methylene bromide) (µg | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Bromodichloromethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 2-Chloroethyl vinyl ether (µg/L) | | <10.00 | 10 | 6/21/00 | PB02900 | QC03360 |
| cis-1,3-Dichloropropene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| trans-1,3-Dichloropropene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Toluene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,1,2-Trichloroethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,3-Dichloropropane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Dibromochloromethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,2-Dibromoethane (EDB) (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Tetrachloroethene (PCE) (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Chlorobenzene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,1,1,2-Tetrachloroethane (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Ethylbenzene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| m,p-Xylene (µg/L) | | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |

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|---|---|---|---|---|---|
| Bromoform (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Styrene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| o-Xylene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,1,2,2-Tetrachloroethane (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 2-Chlorotoluene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,2,3-Trichloropropane (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Isopropylbenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Bromobenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| n-Propylbenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,3,5-Trimethylbenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| tert-Butylbenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,2,4-Trimethylbenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,4-Dichlorobenzene (para) (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| sec-Butylbenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,3-Dichlorobenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| p-Isopropyltoluene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 4-Chlorotoluene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,2-Dichlorobenzene (ortho) (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| n-Butylbenzene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| 1,2-Dibromo-3-chloropropane (µg/L) | <5.00 | 5 | 6/21/00 | PB02900 | QC03360 |
| 1,2,3-Trichlorobenzene (µg/L) | <5.00 | 5 | 6/21/00 | PB02900 | QC03360 |
| 1,2,4-Trichlorobenzene (µg/L) | <5.00 | 5 | 6/21/00 | PB02900 | QC03360 |
| Naphthalene (µg/L) | <2.00 | 2 | 6/21/00 | PB02900 | QC03360 |
| Hexachlorobutadiene (µg/L) | <5.00 | 5 | 6/21/00 | PB02900 | QC03360 |

| Surrogate | Result | Spike Amount | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|
| Dibromofluoromethane (µg/L) | 44.93 | 50 | 90 | 84 - 116 | QC03360 |
| Toluene-d8 (µg/L) | 48.07 | 50 | 96 | 92 - 108 | QC03360 |
| 4-Bromofluorobenzene (µg/L) | 48.73 | 50 | 97 | 80 - 110 | QC03360 |

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|---|---|---|---|---|---|
| Bromochloromethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Dichlorodifluoromethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Chloromethane (methyl chloride) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Vinyl Chloride (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Bromomethane (methyl bromide) (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| Chloroethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Trichlorofluoromethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Acetone (µg/Kg) | <250 | 10 | 6/26/00 | PB02970 | QC03449 |
| Iodomethane (methyl iodide) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Carbon Disulfide (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Acrylonitrile (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 2-Butanone (MEK) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 4-methyl-2-pentanone (MIBK) (µg/Kg) | <250 | 10 | 6/26/00 | PB02970 | QC03449 |
| 2-hexanone (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| trans 1,4-Dichloro-2-butene (µg/Kg) | <250 | 10 | 6/26/00 | PB02970 | QC03449 |
| 1,1-Dichloroethene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Methylene chloride (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| MTBE (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| trans-1,2-Dichloroethene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1-Dichloroethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| cis-1,2-dichloroethene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 2,2-Dichloropropane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |

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|---|---|---|---|---|---|
| 1,2-Dichloroethane (EDC) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Chloroform (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1,1-Trichloroethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1-Dichloropropene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Benzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Carbon Tetrachloride (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dichloropropane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Trichloroethene (TCE) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Dibromomethane (methylene bromide) (µg | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Bromodichloromethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 2-Chloroethyl vinyl ether (µg/Kg) | <250 | 10 | 6/26/00 | PB02970 | QC03449 |
| cis-1,3-Dichloropropene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| trans-1,3-Dichloropropene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Toluene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1,2-Trichloroethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,3-Dichloropropane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Dibromochloromethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dibromoethane (EDB) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Tetrachloroethene (PCE) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Chlorobenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1,1,2-Tetrachloroethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Ethylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| m,p-Xylene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Bromoform (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Styrene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| o-Xylene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1,2,2-Tetrachloroethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 2-Chlorotoluene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2,3-Trichloropropane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Isopropylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Bromobenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| n-Propylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,3,5-Trimethylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| tert-Butylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2,4-Trimethylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,4-Dichlorobenzene (para) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| sec-Butylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,3-Dichlorobenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| p-Isopropyltoluene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 4-Chlorotoluene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dichlorobenzene (ortho) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| n-Butylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dibromo-3-chloropropane (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| 1,2,3-Trichlorobenzene (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| 1,2,4-Trichlorobenzene (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| Naphthalene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Hexachlorobutadiene (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |

| Surrogate | Result | Spike Amount | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|
| Dibromofluoromethane (µg/Kg) | 46.77 | 50 | 94 | 69 - 116 | QC03449 |
| Toluene-d8 (µg/Kg) | 51.95 | 50 | 104 | 80 - 120 | QC03449 |
| 4-Bromofluorobenzene (µg/Kg) | 45.28 | 50 | 91 | 80 - 120 | QC03449 |

| Param | Flag | Blank Result | Reporting Limit | Date Analyzed | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|
| Pyridine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosodimethylamine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Picoline (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Methyl methanesulfonate (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Ethyl methanesulfonate (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Aniline (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroethyl) ether (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Chlorophenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,3-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,4-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzyl alcohol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Methylphenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroisopropyl) ether (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Methylphenol/3-Methylphenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acetophenone (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosodi-n-propylamine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachloroethane (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Nitrobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosopiperidine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Isophorone (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Nitrophenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dimethylphenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroethoxy) methane (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzoic acid (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dichlorophenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2,4-Trichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| a,a-Dimethylphenethylamine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Naphthalene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chloroaniline (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,6-Dichlorophenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorobutadiene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitroso-di-n-butylamine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chloro-3-methylphenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Methylnaphthalene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Methylnaphthalene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2,4,5-Tetrachlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorocyclopentadiene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4,6-Trichlorophenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4,5-Trichlorophenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Chloronaphthalene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Chloronaphthalene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |

| | | | | | |
|---|---|---|---|---|---|
| 2-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dimethylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acenaphthylene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,6-Dinitrotoluene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acenaphthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dinitrophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzofuran (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Nitrophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Napthylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Napthylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,3,4,6-Tetrachlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Fluorene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diethylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chlorophenyl-phenylether (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4,6-Dinitro-2-methylphenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diphenylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diphenylhydrazine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Bromophenyl-phenylether (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenacetin (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Aminobiphenyl (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachloronitrobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pronamide (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenanthrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Di-n-butylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzidine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| p-Dimethylaminoazobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Butylbenzylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(a)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3,3-Dichlorobenzidine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Chrysene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Bis (2-ethylhexyl) phthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Di-n-octylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(b)fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 7,12-Dimethylbenz(a)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(k)fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(a)pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3-Methylcholanthrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzo(a,j)acridine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Indeno(1,2,3-cd)pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzo(a,h)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(g,h,i)perylene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |

| Surrogate | Result | Spike Amount | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|
| 2-Fluorophenol (mg/L) | 39.03 | 80 | 49 | 8 - 73 | QC03472 |
| Phenol-d5 (mg/L) | 45.38 | 80 | 57 | 8 - 62 | QC03472 |
| Nitrobenzene-d5 (mg/L) | 45.38 | 80 | 57 | 45 - 111 | QC03472 |
| 2-Fluorobiphenyl (mg/L) | 47.21 | 80 | 59 | 45 - 109 | QC03472 |
| 2,4,6-Tribromophenol (mg/L) | 46.85 | 80 | 59 | 39 - 132 | QC03472 |
| Terphenyl-d14 (mg/L) | 48.35 | 80 | 60 | 46 - 121 | QC03472 |

# Quality Control Report
## Lab Control Spikes and Duplicate Spike

| | Param | Blank Result | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS | 1,1-Dichloroethene (ug/L) | <2.00 | 1 | 100 | 92 | 92 | | 73 - 154 | - | QC03360 |
| LCS | Benzene (ug/L) | <2.00 | 1 | 100 | 94 | 94 | | 84 - 126 | - | QC03360 |
| LCS | Trichloroethene (TCE) (ug/L) | <2.00 | 1 | 100 | 97 | 97 | | 82 - 123 | - | QC03360 |
| LCS | Toluene (ug/L) | <2.00 | 1 | 100 | 92 | 92 | | 81 - 122 | - | QC03360 |
| LCS | Chlorobenzene (ug/L) | <2.00 | 1 | 100 | 95 | 95 | | 86 - 121 | - | QC03360 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCS | Dibromofluoromethane (µg/L) | 1 | 50 | 45.26 | 91 | 84 - 116 | QC03360 |
| LCS | Toluene-d8 (µg/L) | 1 | 50 | 48.04 | 96 | 92 - 108 | QC03360 |
| LCS | 4-Bromofluorobenzene (µg/L) | 1 | 50 | 48.63 | 97 | 80 - 110 | QC03360 |

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|---|---|---|---|---|---|---|---|---|---|---|
| LCSD | 1,1-Dichloroethene (ug/L) | <2.00 | 1 | 100 | 95 | 95 | 3 | - | 0 - 20 | QC03360 |
| LCSD | Benzene (ug/L) | <2.00 | 1 | 100 | 98 | 98 | 4 | - | 0 - 20 | QC03360 |
| LCSD | Trichloroethene (TCE) (ug/L) | <2.00 | 1 | 100 | 101 | 101 | 4 | - | 0 - 20 | QC03360 |
| LCSD | Toluene (ug/L) | <2.00 | 1 | 100 | 98 | 98 | 6 | - | 0 - 20 | QC03360 |
| LCSD | Chlorobenzene (ug/L) | <2.00 | 1 | 100 | 99 | 99 | 4 | - | 0 - 20 | QC03360 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCSD | Dibromofluoromethane (µg/L) | 1 | 50 | 45.14 | 90 | 84 - 116 | QC03360 |
| LCSD | Toluene-d8 (µg/L) | 1 | 50 | 47.46 | 95 | 92 - 108 | QC03360 |
| LCSD | 4-Bromofluorobenzene (µg/L) | 1 | 50 | 48.17 | 96 | 80 - 110 | QC03360 |

| | Param | Blank Result | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS | 1,1-Dichloroethene (ug/Kg) | <50 | 1 | 100 | 96 | 96 | | 80 - 120 | - | QC03449 |
| LCS | Benzene (ug/Kg) | <50 | 1 | 100 | 96 | 96 | | 80 - 120 | - | QC03449 |
| LCS | Trichloroethene (TCE) (ug/Kg) | <50 | 1 | 100 | 96 | 96 | | 80 - 120 | - | QC03449 |
| LCS | Toluene (ug/Kg) | <50 | 1 | 100 | 96 | 96 | | 80 - 120 | - | QC03449 |
| LCS | Chlorobenzene (ug/Kg) | <50 | 1 | 100 | 98 | 98 | | 80 - 120 | - | QC03449 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCS | Dibromofluoromethane (µg/Kg) | 1 | 50 | 45.99 | 92 | 69 - 116 | QC03449 |
| LCS | Toluene-d8 (µg/Kg) | 1 | 50 | 49.85 | 100 | 80 - 120 | QC03449 |
| LCS | 4-Bromofluorobenzene (µg/Kg) | 1 | 50 | 48.80 | 98 | 80 - 120 | QC03449 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LCSD | 1,1-Dichloroethene (ug/Kg) | <50 | 1 | 100 | 94 | 94 | 2 | - | 0 - 20 | QC03449 |
| LCSD | Benzene (ug/Kg) | <50 | 1 | 100 | 95 | 95 | 1 | - | 0 - 20 | QC03449 |
| LCSD | Trichloroethene (TCE) (ug/Kg) | <50 | 1 | 100 | 95 | 95 | 1 | - | 0 - 20 | QC03449 |
| LCSD | Toluene (ug/Kg) | <50 | 1 | 100 | 94 | 94 | 2 | - | 0 - 20 | QC03449 |
| LCSD | Chlorobenzene (ug/Kg) | <50 | 1 | 100 | 96 | 96 | 2 | - | 0 - 20 | QC03449 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCSD | Dibromofluoromethane (µg/Kg) | 1 | 50 | 46.60 | 93 | 69 - 116 | QC03449 |
| LCSD | Toluene-d8 (µg/Kg) | 1 | 50 | 50.52 | 101 | 80 - 120 | QC03449 |
| LCSD | 4-Bromofluorobenzene (µg/Kg) | 1 | 50 | 47.18 | 94 | 80 - 120 | QC03449 |

| | Param | Blank Result | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS | Phenol (mg/Kg) | <0.25 | 1 | 80 | 39.70 | 50 | | 5 - 57 | - | QC03472 |
| LCS | 2-Chlorophenol (mg/Kg) | <0.25 | 1 | 80 | 39.94 | 50 | | 29 - 110 | - | QC03472 |
| LCS | 1,4-Dichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 41.65 | 52 | | 25 - 94 | - | QC03472 |
| LCS | n-Nitrosodi-n-propylamine (mg/Kg) | <0.25 | 1 | 80 | 44.56 | 56 | | 36 - 119 | - | QC03472 |
| LCS | 1,2,4-Trichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 45.76 | 57 | | 28 - 110 | - | QC03472 |
| LCS | 4-Chloro-3-methylphenol (mg/Kg) | <0.25 | 1 | 80 | 43.24 | 54 | | 40 - 126 | - | QC03472 |
| LCS | Acenaphthene (mg/Kg) | <0.25 | 1 | 80 | 45.79 | 57 | | 47 - 118 | - | QC03472 |
| LCS | 4-Nitrophenol (mg/Kg) | <0.25 | 1 | 80 | 28.42 | 36 | | 0 - 69 | - | QC03472 |
| LCS | 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 1 | 80 | 49.24 | 62 | | 46 - 133 | - | QC03472 |
| LCS | Pentachlorophenol (mg/Kg) | <0.25 | 1 | 80 | 29.97 | 37 | | 21 - 131 | - | QC03472 |
| LCS | Pyrene (mg/Kg) | <0.25 | 1 | 80 | 47.78 | 60 | | 44 - 125 | - | QC03472 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCS | 2-Fluorophenol (mg/L) | 1 | 80 | 40.81 | 51 | 8 - 73 | QC03472 |
| LCS | Phenol-d5 (mg/L) | 1 | 80 | 44.52 | 56 | 8 - 62 | QC03472 |
| LCS | Nitrobenzene-d5 (mg/L) | 1 | 80 | 47.07 | 59 | 45 - 111 | QC03472 |
| LCS | 2-Fluorobiphenyl (mg/L) | 1 | 80 | 45.53 | 57 | 45 - 109 | QC03472 |
| LCS | 2,4,6-Tribromophenol (mg/L) | 1 | 80 | 46.54 | 58 | 39 - 132 | QC03472 |
| LCS | Terphenyl-d14 (mg/L) | 1 | 80 | 46.63 | 58 | 46 - 121 | QC03472 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LCSD | Phenol (mg/Kg) | <0.25 | 1 | 80 | 37.09 | 46 | 7 | - | 0 - 20 | QC03472 |
| LCSD | 2-Chlorophenol (mg/Kg) | <0.25 | 1 | 80 | 36.29 | 45 | 10 | - | 0 - 20 | QC03472 |
| LCSD | 1,4-Dichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 40.80 | 51 | 2 | - | 0 - 20 | QC03472 |
| LCSD | n-Nitrosodi-n-propylamine (mg/Kg) | <0.25 | 1 | 80 | 47.55 | 59 | 6 | - | 0 - 20 | QC03472 |
| LCSD | 1,2,4-Trichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 44.61 | 56 | 3 | - | 0 - 20 | QC03472 |
| LCSD | 4-Chloro-3-methylphenol (mg/Kg) | <0.25 | 1 | 80 | 47.02 | 59 | 8 | - | 0 - 20 | QC03472 |
| LCSD | Acenaphthene (mg/Kg) | <0.25 | 1 | 80 | 49.58 | 62 | 8 | - | 0 - 20 | QC03472 |
| LCSD | 4-Nitrophenol (mg/Kg) | <0.25 | 1 | 80 | 31.20 | 39 | 9 | - | 0 - 20 | QC03472 |
| LCSD | 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 1 | 80 | 53.94 | 67 | 9 | - | 0 - 20 | QC03472 |
| LCSD | Pentachlorophenol (mg/Kg) | <0.25 | 1 | 80 | 36.00 | 45 | 18 | - | 0 - 20 | QC03472 |
| LCSD | Pyrene (mg/Kg) | <0.25 | 1 | 80 | 47.94 | 60 | 0 | - | 0 - 20 | QC03472 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCSD | 2-Fluorophenol (mg/L) | 1 | 80 | 37.75 | 47 | 8 - 73 | QC03472 |
| LCSD | Phenol-d5 (mg/L) | 1 | 80 | 43.00 | 54 | 8 - 62 | QC03472 |
| LCSD | Nitrobenzene-d5 (mg/L) | 1 | 80 | 44.78 | 56 | 45 - 111 | QC03472 |
| LCSD | 2-Fluorobiphenyl (mg/L) | 1 | 80 | 45.62 | 57 | 45 - 109 | QC03472 |
| LCSD | 2,4,6-Tribromophenol (mg/L) | 1 | 80 | 50.00 | 63 | 39 - 132 | QC03472 |
| LCSD | Terphenyl-d14 (mg/L) | 1 | 80 | 46.87 | 59 | 46 - 121 | QC03472 |

# Quality Control Report
## Continuing Calibration Verification Standard

| Standard | Param | Flag | CCVs TRUE Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| CCV 1 | Vinyl Chloride (µg/L) | | 100 | 87 | 87 | 80 - 120 | 6/21/00 | QC03360 |
| CCV 1 | 1,1-Dichloroethene (µg/L) | | 100 | 96 | 96 | 73 - 154 | 6/21/00 | QC03360 |
| CCV 1 | Chloroform (µg/L) | | 100 | 90 | 90 | 80 - 120 | 6/21/00 | QC03360 |
| CCV 1 | 1,2-Dichloropropane (µg/L) | | 100 | 96 | 96 | 80 - 120 | 6/21/00 | QC03360 |
| CCV 1 | Toluene (µg/L) | | 100 | 100 | 100 | 81 - 122 | 6/21/00 | QC03360 |
| CCV 1 | Chlorobenzene (µg/L) | | 100 | 98 | 98 | 86 - 121 | 6/21/00 | QC03360 |
| CCV 1 | Ethylbenzene (µg/L) | | 100 | 96 | 96 | 80 - 120 | 6/21/00 | QC03360 |
| CCV 1 | Dibromofluoromethane (µg/L) | | 50 | 46.29 | 93 | 80 - 120 | 6/21/00 | QC03360 |
| CCV 1 | Toluene-d8 (µg/L) | | 50 | 46.99 | 94 | 80 - 120 | 6/21/00 | QC03360 |
| CCV 1 | 4-Bromofluorobenzene (µg/L) | | 50 | 48.93 | 98 | 80 - 120 | 6/21/00 | QC03360 |

| Standard | Param | Flag | CCVs TRUE Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| CCV 1 | Vinyl Chloride (µg/Kg) | | 100 | 90 | 90 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | 1,1-Dichloroethene (µg/Kg) | | 100 | 93 | 93 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Chloroform (µg/Kg) | | 100 | 88 | 88 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | 1,2-Dichloropropane (µg/Kg) | | 100 | 95 | 95 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Toluene (µg/Kg) | | 100 | 95 | 95 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Chlorobenzene (µg/Kg) | | 100 | 96 | 96 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Ethylbenzene (µg/Kg) | | 100 | 98 | 98 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Dibromofluoromethane (µg/Kg) | | 50 | 48.88 | 98 | 83 - 121 | 6/26/00 | QC03449 |
| CCV 1 | Toluene-d8 (µg/Kg) | | 50 | 49.02 | 98 | 91 - 108 | 6/26/00 | QC03449 |
| CCV 1 | 4-Bromofluorobenzene (µg/Kg) | | 50 | 51.50 | 103 | 80 - 120 | 6/26/00 | QC03449 |

| Standard | Param | Flag | CCVs TRUE Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| CCV 1 | Phenol (mg/Kg) | | 60 | 56.32 | 94 | 5 - 57 | 6/27/00 | QC03472 |
| CCV 1 | 1,4-Dichlorobenzene (mg/Kg) | | 60 | 57.98 | 97 | 25 - 94 | 6/27/00 | QC03472 |
| CCV 1 | 2-Nitrophenol (mg/Kg) | | 60 | 60.78 | 101 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 2,4-Dichlorophenol (mg/Kg) | | 60 | 59.93 | 100 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Hexachlorobutadiene (mg/Kg) | | 60 | 57.74 | 96 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 4-Chloro-3-methylphenol (mg/Kg) | | 60 | 60.26 | 100 | 40 - 126 | 6/27/00 | QC03472 |
| CCV 1 | 2,4,6-Trichlorophenol (mg/Kg) | | 60 | 58.87 | 98 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Acenaphthene (mg/Kg) | | 60 | 57.01 | 95 | 47 - 118 | 6/27/00 | QC03472 |
| CCV 1 | Diphenylamine (mg/Kg) | | 60 | 55.95 | 93 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Pentachlorophenol (mg/Kg) | | 60 | 62.46 | 104 | 21 - 131 | 6/27/00 | QC03472 |
| CCV 1 | Fluoranthene (mg/Kg) | | 60 | 57.18 | 95 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Di-n-octylphthalate (mg/Kg) | | 60 | 59.68 | 99 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Benzo(a)pyrene (mg/Kg) | | 60 | 59.75 | 100 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 2-Fluorophenol (mg/Kg) | | 60 | 59.97 | 100 | 8 - 73 | 6/27/00 | QC03472 |

# Quality Control Report
## Continuing Calibration Verification Standard

| Standard | Param | Flag | CCVs TRUE Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| CCV 1 | Phenol-d5 (mg/Kg) | | 60 | 59.74 | 100 | 8 - 62 | 6/27/00 | QC03472 |
| CCV 1 | Nitrobenzene-d5 (mg/Kg) | | 60 | 59.34 | 99 | 45 - 111 | 6/27/00 | QC03472 |
| CCV 1 | 2-Fluorobiphenyl (mg/Kg) | | 60 | 56.69 | 94 | 45 - 109 | 6/27/00 | QC03472 |
| CCV 1 | 2,4,6-Tribromophenol (mg/Kg) | | 60 | 56.18 | 94 | 39 - 132 | 6/27/00 | QC03472 |
| CCV 1 | Terphenyl-d14 (mg/Kg) | | 60 | 58.79 | 98 | 46 - 121 | 6/27/00 | QC03472 |

TRACEANALYSIS, INC.

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E-Mail: lab@traceanalysis.com

# Analytical and Quality Control Report

Wayne Price
OCD
2040 S. Pacheco
Santa Fe, NM 87505

Report Date: 7/5/00

Project Number: CRI
Project Name: N/A
Project Location: CRI Halfway

Order ID Number: A00062026

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

| Sample Number | Sample Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 148445 | 0616001505 | Sludge | 6/16/00 | 15:05 | 6/20/00 |
| 148446 | 0616001520 | Sludge | 6/16/00 | 15:20 | 6/20/00 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

# Analytical Results Report

Sample Number: 148445
Description: 0616001505

| Param | Result | Dilution | Analytical Method | Date Prepared | Date Analyzed | Analyst | Prep Batch # | QC Batch # | RDL |
|---|---|---|---|---|---|---|---|---|---|
| 8260 (µg/Kg) | | | | | | | | | |
| Bromochloromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dichlorodifluoromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chloromethane (methyl chloride) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Vinyl Chloride | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromomethane (methyl bromide) | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| Chloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Trichlorofluoromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Acetone | <5000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| Iodomethane (methyl iodide) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Carbon Disulfide | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Acrylonitrile | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Butanone (MEK) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 4-methyl-2-pentanone (MIBK) | <5000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| 2-hexanone | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans 1,4-Dichloro-2-butene | <5000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| 1,1-Dichloroethene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Methylene chloride | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| MTBE | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans-1,2-Dichloroethene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1-Dichloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| cis-1,2-dichloroethene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2,2-Dichloropropane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichloroethane (EDC) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chloroform | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,1-Trichloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1-Dichloropropene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Benzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Carbon Tetrachloride | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichloropropane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Trichloroethene (TCE) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dibromomethane (methylene bromide) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromodichloromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Chloroethyl vinyl ether | <5000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| cis-1,3-Dichloropropene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans-1,3-Dichloropropene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Toluene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,2-Trichloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3-Dichloropropane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dibromochloromethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dibromoethane (EDB) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Tetrachloroethene (PCE) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chlorobenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,1,2-Tetrachloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Ethylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| m,p-Xylene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromoform | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Styrene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| o-Xylene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Chlorotoluene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2,3-Trichloropropane | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Isopropylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromobenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| n-Propylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3,5-Trimethylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| tert-Butylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2,4-Trimethylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,4-Dichlorobenzene (para) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| sec-Butylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3-Dichlorobenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| p-Isopropyltoluene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 4-Chlorotoluene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichlorobenzene (ortho) | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| n-Butylbenzene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dibromo-3-chloropropane | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| 1,2,3-Trichlorobenzene | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| 1,2,4-Trichlorobenzene | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| Naphthalene | <1000 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Hexachlorobutadiene | <2500 | 500 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |

* Test Comments - sample ran at 1:500 dilution due to oily matrix

| Surrogate (µg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 46.44 | 1 | 50 | 93 | 69 - 116 | JG | PB02970 | QC03449 |
| Toluene-d8 | 49.70 | 1 | 50 | 99 | 80 - 120 | JG | PB02970 | QC03449 |
| 4-Bromofluorobenzene | 50.82 | 1 | 50 | 102 | 80 - 120 | JG | PB02970 | QC03449 |

| 8270 (mg/Kg) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pyridine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodimethylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Picoline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Methyl methanesulfonate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Ethyl methanesulfonate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Aniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethyl) ether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,3-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,4-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzyl alcohol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroisopropyl) ether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Methylphenol/3-Methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acetophenone | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodi-n-propylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachloroethane | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Nitrobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosopiperidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Isophorone | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dimethylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethoxy) methane | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzoic acid | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| a,a-Dimethylphenethylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Naphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobutadiene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitroso-di-n-butylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloro-3-methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Methylnaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylnaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4,5-Tetrachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorocyclopentadiene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,6-Trichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,5-Trichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chloronaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Chloronaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dimethylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthylene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dinitrotoluene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzofuran | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Napthylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrotoluene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Napthylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,3,4,6-Tetrachlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluorene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diethylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chlorophenyl-phenylether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4,6-Dinitro-2-methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylhydrazine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Bromophenyl-phenylether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenacetin | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Aminobiphenyl | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachloronitrobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pronamide | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenanthrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-butylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| p-Dimethylaminoazobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Butylbenzylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3,3-Dichlorobenzidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Chrysene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Bis (2-ethylhexyl) phthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

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|---|---|---|---|---|---|---|---|---|---|
| Di-n-octylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(b)fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 7,12-Dimethylbenz(a)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(k)fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Methylcholanthrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,j)acridine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Indeno(1,2,3-cd)pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,h)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(g,h,i)perylene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| Surrogate (mg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 55.94 | 1500 | 80 | 70 | 8 - 73 | MA | PB02992 | QC03472 |
| Phenol-d5 | 55.46 | 1500 | 80 | 69 | 8 - 62 | MA | PB02992 | QC03472 |
| Nitrobenzene-d5 | 59.98 | 1500 | 80 | 75 | 45 - 111 | MA | PB02992 | QC03472 |
| 2-Fluorobiphenyl | 73.53 | 1500 | 80 | 92 | 45 - 109 | MA | PB02992 | QC03472 |
| 2,4,6-Tribromophenol | 0.00 | 1500 | 80 | 0 | 39 - 132 | MA | PB02992 | QC03472 |
| Terphenyl-d14 | 79.34 | 1500 | 80 | 99 | 46 - 121 | MA | PB02992 | QC03472 |

Sample Number: 148446
Description: 0616001520

| Param | Result | Dilution | Analytical Method | Date Prepared | Date Analyzed | Analyst | Prep Batch # | QC Batch # | RDL |
|---|---|---|---|---|---|---|---|---|---|
| 8260 (µg/Kg) | | | | | | | | | |
| Bromochloromethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dichlorodifluoromethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chloromethane (methyl chloride) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Vinyl Chloride | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromomethane (methyl bromide) | <50 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| Chloroethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Trichlorofluoromethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Acetone | <100 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| Iodomethane (methyl iodide) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Carbon Disulfide | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Acrylonitrile | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Butanone (MEK) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 4-methyl-2-pentanone (MIBK) | <100 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| 2-hexanone | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans 1,4-Dichloro-2-butene | <100 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| 1,1-Dichloroethene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Methylene chloride | <50 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| MTBE | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans-1,2-Dichloroethene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1-Dichloroethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| cis-1,2-dichloroethene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2,2-Dichloropropane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichloroethane (EDC) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chloroform | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,1-Trichloroethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1-Dichloropropene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Benzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Carbon Tetrachloride | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichloropropane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Trichloroethene (TCE) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dibromomethane (methylene bromide) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Bromodichloromethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Chloroethyl vinyl ether | <100 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 10 |
| cis-1,3-Dichloropropene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| trans-1,3-Dichloropropene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Toluene | 30 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,2-Trichloroethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3-Dichloropropane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Dibromochloromethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dibromoethane (EDB) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Tetrachloroethene (PCE) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Chlorobenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,1,2-Tetrachloroethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Ethylbenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| m,p-Xylene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromoform | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Styrene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| o-Xylene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,1,2,2-Tetrachloroethane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 2-Chlorotoluene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2,3-Trichloropropane | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Isopropylbenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Bromobenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| n-Propylbenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3,5-Trimethylbenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| tert-Butylbenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2,4-Trimethylbenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,4-Dichlorobenzene (para) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| sec-Butylbenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,3-Dichlorobenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| p-Isopropyltoluene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 4-Chlorotoluene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dichlorobenzene (ortho) | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| n-Butylbenzene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| 1,2-Dibromo-3-chloropropane | <50 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| 1,2,3-Trichlorobenzene | <50 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| 1,2,4-Trichlorobenzene | <50 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |
| Naphthalene | <20 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 2 |
| Hexachlorobutadiene | <50 | 10 | S 8260B | 6/26/00 | 6/26/00 | JG | PB02970 | QC03449 | 5 |

| Surrogate (µg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 46.27 | 1 | 50 | 93 | 69 - 116 | JG | PB02970 | QC03449 |
| Toluene-d8 | 49.83 | 1 | 50 | 100 | 80 - 120 | JG | PB02970 | QC03449 |
| 4-Bromofluorobenzene | 49.86 | 1 | 50 | 100 | 80 - 120 | JG | PB02970 | QC03449 |

| 8270 (mg/Kg) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pyridine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodimethylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Picoline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Methyl methanesulfonate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Ethyl methanesulfonate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Aniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethyl) ether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,3-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,4-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

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|---|---|---|---|---|---|---|---|---|---|
| Benzyl alcohol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroisopropyl) ether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Methylphenol/3-Methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acetophenone | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodi-n-propylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachloroethane | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Nitrobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosopiperidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Isophorone | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dimethylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethoxy) methane | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzoic acid | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4-Trichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| a,a-Dimethylphenethylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Naphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobutadiene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitroso-di-n-butylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloro-3-methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Methylnaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylnaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4,5-Tetrachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorocyclopentadiene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,6-Trichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,5-Trichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chloronaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Chloronaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dimethylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthylene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dinitrotoluene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzofuran | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Napthylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrotoluene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Napthylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,3,4,6-Tetrachlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluorene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diethylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chlorophenyl-phenylether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4,6-Dinitro-2-methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylhydrazine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Bromophenyl-phenylether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenacetin | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 4-Aminobiphenyl | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachloronitrobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pronamide | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenanthrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-butylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| p-Dimethylaminoazobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Butylbenzylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3,3-Dichlorobenzidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Chrysene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Bis (2-ethylhexyl) phthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-octylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(b)fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 7,12-Dimethylbenz(a)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(k)fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Methylcholanthrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,j)acridine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Indeno(1,2,3-cd)pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,h)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(g,h,i)perylene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| Surrogate (mg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 48.12 | 1500 | 80 | 60 | 8 - 73 | MA | PB02992 | QC03472 |
| Phenol-d5 | 44.07 | 1500 | 80 | 55 | 8 - 62 | MA | PB02992 | QC03472 |
| Nitrobenzene-d5 | 51.93 | 1500 | 80 | 65 | 45 - 111 | MA | PB02992 | QC03472 |
| 2-Fluorobiphenyl | 62.27 | 1500 | 80 | 78 | 45 - 109 | MA | PB02992 | QC03472 |
| 2,4,6-Tribromophenol | 0.00 | 1500 | 80 | 0 | 39 - 132 | MA | PB02992 | QC03472 |
| Terphenyl-d14 | 58.15 | 1500 | 80 | 73 | 46 - 121 | MA | PB02992 | QC03472 |

# Quality Control Report
## Method Blanks

| Param | Flag | Blank Result | Reporting Limit | Date Analyzed | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|
| Bromochloromethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Dichlorodifluoromethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Chloromethane (methyl chloride) (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Vinyl Chloride (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Bromomethane (methyl bromide) (µg/Kg) | | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| Chloroethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Trichlorofluoromethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Acetone (µg/Kg) | | <250 | 10 | 6/26/00 | PB02970 | QC03449 |
| Iodomethane (methyl iodide) (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Carbon Disulfide (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Acrylonitrile (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 2-Butanone (MEK) (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 4-methyl-2-pentanone (MIBK) (µg/Kg) | | <250 | 10 | 6/26/00 | PB02970 | QC03449 |
| 2-hexanone (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| trans 1,4-Dichloro-2-butene (µg/Kg) | | <250 | 10 | 6/26/00 | PB02970 | QC03449 |
| 1,1-Dichloroethene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Methylene chloride (µg/Kg) | | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| MTBE (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| trans-1,2-Dichloroethene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1-Dichloroethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| cis-1,2-dichloroethene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 2,2-Dichloropropane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dichloroethane (EDC) (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Chloroform (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1,1-Trichloroethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1-Dichloropropene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Benzene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Carbon Tetrachloride (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dichloropropane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Trichloroethene (TCE) (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Dibromomethane (methylene bromide) (µg | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Bromodichloromethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 2-Chloroethyl vinyl ether (µg/Kg) | | <250 | 10 | 6/26/00 | PB02970 | QC03449 |
| cis-1,3-Dichloropropene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| trans-1,3-Dichloropropene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Toluene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1,2-Trichloroethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,3-Dichloropropane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Dibromochloromethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dibromoethane (EDB) (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Tetrachloroethene (PCE) (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Chlorobenzene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1,1,2-Tetrachloroethane (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Ethylbenzene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| m,p-Xylene (µg/Kg) | | <50 | 2 | 6/26/00 | PB02970 | QC03449 |

| | | | | | |
|---|---|---|---|---|---|
| Bromoform (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Styrene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| o-Xylene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,1,2,2-Tetrachloroethane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 2-Chlorotoluene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2,3-Trichloropropane (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Isopropylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Bromobenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| n-Propylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,3,5-Trimethylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| tert-Butylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2,4-Trimethylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,4-Dichlorobenzene (para) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| sec-Butylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,3-Dichlorobenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| p-Isopropyltoluene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 4-Chlorotoluene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dichlorobenzene (ortho) (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| n-Butylbenzene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| 1,2-Dibromo-3-chloropropane (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| 1,2,3-Trichlorobenzene (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| 1,2,4-Trichlorobenzene (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |
| Naphthalene (µg/Kg) | <50 | 2 | 6/26/00 | PB02970 | QC03449 |
| Hexachlorobutadiene (µg/Kg) | <125 | 5 | 6/26/00 | PB02970 | QC03449 |

| Surrogate | Result | Spike Amount | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|
| Dibromofluoromethane (µg/Kg) | 46.77 | 50 | 94 | 69 - 116 | QC03449 |
| Toluene-d8 (µg/Kg) | 51.95 | 50 | 104 | 80 - 120 | QC03449 |
| 4-Bromofluorobenzene (µg/Kg) | 45.28 | 50 | 91 | 80 - 120 | QC03449 |

| Param | Flag | Blank Result | Reporting Limit | Date Analyzed | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|
| Pyridine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosodimethylamine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Picoline (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Methyl methanesulfonate (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Ethyl methanesulfonate (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Aniline (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroethyl) ether (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Chlorophenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,3-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,4-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzyl alcohol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Methylphenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroisopropyl) ether (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Methylphenol/3-Methylphenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acetophenone (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosodi-n-propylamine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachloroethane (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |

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|---|---|---|---|---|---|
| Nitrobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosopiperidine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Isophorone (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Nitrophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dimethylphenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroethoxy) methane (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzoic acid (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dichlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2,4-Trichlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| a,a-Dimethylphenethylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Naphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chloroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,6-Dichlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorobutadiene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitroso-di-n-butylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chloro-3-methylphenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Methylnaphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Methylnaphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2,4,5-Tetrachlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorocyclopentadiene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4,6-Trichlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4,5-Trichlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Chloronaphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Chloronaphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dimethylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acenaphthylene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,6-Dinitrotoluene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acenaphthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dinitrophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzofuran (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Nitrophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Napthylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Napthylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,3,4,6-Tetrachlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Fluorene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diethylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chlorophenyl-phenylether (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4,6-Dinitro-2-methylphenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diphenylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diphenylhydrazine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Bromophenyl-phenylether (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenacetin (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Aminobiphenyl (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachloronitrobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |

| | | | | | |
|---|---|---|---|---|---|
| Pronamide (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenanthrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Di-n-butylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzidine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| p-Dimethylaminoazobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Butylbenzylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(a)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3,3-Dichlorobenzidine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Chrysene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Bis (2-ethylhexyl) phthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Di-n-octylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(b)fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 7,12-Dimethylbenz(a)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(k)fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(a)pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3-Methylcholanthrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzo(a,j)acridine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Indeno(1,2,3-cd)pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzo(a,h)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(g,h,i)perylene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |

| Surrogate | Result | Spike Amount | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|
| 2-Fluorophenol (mg/L) | 39.03 | 80 | 49 | 8 - 73 | QC03472 |
| Phenol-d5 (mg/L) | 45.38 | 80 | 57 | 8 - 62 | QC03472 |
| Nitrobenzene-d5 (mg/L) | 45.38 | 80 | 57 | 45 - 111 | QC03472 |
| 2-Fluorobiphenyl (mg/L) | 47.21 | 80 | 59 | 45 - 109 | QC03472 |
| 2,4,6-Tribromophenol (mg/L) | 46.85 | 80 | 59 | 39 - 132 | QC03472 |
| Terphenyl-d14 (mg/L) | 48.35 | 80 | 60 | 46 - 121 | QC03472 |

# Quality Control Report
## Lab Control Spikes and Duplicate Spike

| | Param | Blank Result | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS | 1,1-Dichloroethene (ug/Kg) | <50 | 1 | 100 | 96 | 96 | | 80 - 120 | - | QC03449 |
| LCS | Benzene (ug/Kg) | <50 | 1 | 100 | 96 | 96 | | 80 - 120 | - | QC03449 |
| LCS | Trichloroethene (TCE) (ug/Kg) | <50 | 1 | 100 | 96 | 96 | | 80 - 120 | - | QC03449 |
| LCS | Toluene (ug/Kg) | <50 | 1 | 100 | 96 | 96 | | 80 - 120 | - | QC03449 |
| LCS | Chlorobenzene (ug/Kg) | <50 | 1 | 100 | 98 | 98 | | 80 - 120 | - | QC03449 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCS | Dibromofluoromethane (µg/Kg) | 1 | 50 | 45.99 | 92 | 69 - 116 | QC03449 |
| LCS | Toluene-d8 (µg/Kg) | 1 | 50 | 49.85 | 100 | 80 - 120 | QC03449 |
| LCS | 4-Bromofluorobenzene (µg/Kg) | 1 | 50 | 48.80 | 98 | 80 - 120 | QC03449 |

| | Param | Blank Result | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|---|
| LCSD | 1,1-Dichloroethene (ug/Kg) | <50 | 1 | 100 | 94 | 94 | 2 | - | 0 - 20 | QC03449 |
| LCSD | Benzene (ug/Kg) | <50 | 1 | 100 | 95 | 95 | 1 | - | 0 - 20 | QC03449 |
| LCSD | Trichloroethene (TCE) (ug/Kg) | <50 | 1 | 100 | 95 | 95 | 1 | - | 0 - 20 | QC03449 |
| LCSD | Toluene (ug/Kg) | <50 | 1 | 100 | 94 | 94 | 2 | - | 0 - 20 | QC03449 |
| LCSD | Chlorobenzene (ug/Kg) | <50 | 1 | 100 | 96 | 96 | 2 | - | 0 - 20 | QC03449 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCSD | Dibromofluoromethane (µg/Kg) | 1 | 50 | 46.60 | 93 | 69 - 116 | QC03449 |
| LCSD | Toluene-d8 (µg/Kg) | 1 | 50 | 50.52 | 101 | 80 - 120 | QC03449 |
| LCSD | 4-Bromofluorobenzene (µg/Kg) | 1 | 50 | 47.18 | 94 | 80 - 120 | QC03449 |

| | Param | Blank Result | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS | Phenol (mg/Kg) | <0.25 | 1 | 80 | 39.70 | 50 | | 5 - 57 | - | QC03472 |
| LCS | 2-Chlorophenol (mg/Kg) | <0.25 | 1 | 80 | 39.94 | 50 | | 29 - 110 | - | QC03472 |
| LCS | 1,4-Dichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 41.65 | 52 | | 25 - 94 | - | QC03472 |
| LCS | n-Nitrosodi-n-propylamine (mg/Kg) | <0.25 | 1 | 80 | 44.56 | 56 | | 36 - 119 | - | QC03472 |
| LCS | 1,2,4-Trichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 45.76 | 57 | | 28 - 110 | - | QC03472 |
| LCS | 4-Chloro-3-methylphenol (mg/Kg) | <0.25 | 1 | 80 | 43.24 | 54 | | 40 - 126 | - | QC03472 |
| LCS | Acenaphthene (mg/Kg) | <0.25 | 1 | 80 | 45.79 | 57 | | 47 - 118 | - | QC03472 |
| LCS | 4-Nitrophenol (mg/Kg) | <0.25 | 1 | 80 | 28.42 | 36 | | 0 - 69 | - | QC03472 |
| LCS | 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 1 | 80 | 49.24 | 62 | | 46 - 133 | - | QC03472 |
| LCS | Pentachlorophenol (mg/Kg) | <0.25 | 1 | 80 | 29.97 | 37 | | 21 - 131 | - | QC03472 |
| LCS | Pyrene (mg/Kg) | <0.25 | 1 | 80 | 47.78 | 60 | | 44 - 125 | - | QC03472 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCS | 2-Fluorophenol (mg/L) | 1 | 80 | 40.81 | 51 | 8 - 73 | QC03472 |
| LCS | Phenol-d5 (mg/L) | 1 | 80 | 44.52 | 56 | 8 - 62 | QC03472 |
| LCS | Nitrobenzene-d5 (mg/L) | 1 | 80 | 47.07 | 59 | 45 - 111 | QC03472 |
| LCS | 2-Fluorobiphenyl (mg/L) | 1 | 80 | 45.53 | 57 | 45 - 109 | QC03472 |
| LCS | 2,4,6-Tribromophenol (mg/L) | 1 | 80 | 46.54 | 58 | 39 - 132 | QC03472 |
| LCS | Terphenyl-d14 (mg/L) | 1 | 80 | 46.63 | 58 | 46 - 121 | QC03472 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LCSD | Phenol (mg/Kg) | <0.25 | 1 | 80 | 37.09 | 46 | 7 | - | 0 - 20 | QC03472 |
| LCSD | 2-Chlorophenol (mg/Kg) | <0.25 | 1 | 80 | 36.29 | 45 | 10 | - | 0 - 20 | QC03472 |
| LCSD | 1,4-Dichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 40.80 | 51 | 2 | - | 0 - 20 | QC03472 |
| LCSD | n-Nitrosodi-n-propylamine (mg/Kg) | <0.25 | 1 | 80 | 47.55 | 59 | 6 | - | 0 - 20 | QC03472 |
| LCSD | 1,2,4-Trichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 44.61 | 56 | 3 | - | 0 - 20 | QC03472 |
| LCSD | 4-Chloro-3-methylphenol (mg/Kg) | <0.25 | 1 | 80 | 47.02 | 59 | 8 | - | 0 - 20 | QC03472 |
| LCSD | Acenaphthene (mg/Kg) | <0.25 | 1 | 80 | 49.58 | 62 | 8 | - | 0 - 20 | QC03472 |
| LCSD | 4-Nitrophenol (mg/Kg) | <0.25 | 1 | 80 | 31.20 | 39 | 9 | - | 0 - 20 | QC03472 |
| LCSD | 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 1 | 80 | 53.94 | 67 | 9 | - | 0 - 20 | QC03472 |
| LCSD | Pentachlorophenol (mg/Kg) | <0.25 | 1 | 80 | 36.00 | 45 | 18 | - | 0 - 20 | QC03472 |
| LCSD | Pyrene (mg/Kg) | <0.25 | 1 | 80 | 47.94 | 60 | 0 | - | 0 - 20 | QC03472 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCSD | 2-Fluorophenol (mg/L) | 1 | 80 | 37.75 | 47 | 8 - 73 | QC03472 |
| LCSD | Phenol-d5 (mg/L) | 1 | 80 | 43.00 | 54 | 8 - 62 | QC03472 |
| LCSD | Nitrobenzene-d5 (mg/L) | 1 | 80 | 44.78 | 56 | 45 - 111 | QC03472 |
| LCSD | 2-Fluorobiphenyl (mg/L) | 1 | 80 | 45.62 | 57 | 45 - 109 | QC03472 |
| LCSD | 2,4,6-Tribromophenol (mg/L) | 1 | 80 | 50.00 | 63 | 39 - 132 | QC03472 |
| LCSD | Terphenyl-d14 (mg/L) | 1 | 80 | 46.87 | 59 | 46 - 121 | QC03472 |

# Quality Control Report
## Continuing Calibration Verification Standard

| Standard | Param | Flag | CCVs TRUE Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| CCV 1 | Vinyl Chloride (µg/Kg) | | 100 | 90 | 90 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | 1,1-Dichloroethene (µg/Kg) | | 100 | 93 | 93 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Chloroform (µg/Kg) | | 100 | 88 | 88 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | 1,2-Dichloropropane (µg/Kg) | | 100 | 95 | 95 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Toluene (µg/Kg) | | 100 | 95 | 95 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Chlorobenzene (µg/Kg) | | 100 | 96 | 96 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Ethylbenzene (µg/Kg) | | 100 | 98 | 98 | 80 - 120 | 6/26/00 | QC03449 |
| CCV 1 | Dibromofluoromethane (µg/Kg) | | 50 | 48.88 | 98 | 83 - 121 | 6/26/00 | QC03449 |
| CCV 1 | Toluene-d8 (µg/Kg) | | 50 | 49.02 | 98 | 91 - 108 | 6/26/00 | QC03449 |
| CCV 1 | 4-Bromofluorobenzene (µg/Kg) | | 50 | 51.50 | 103 | 80 - 120 | 6/26/00 | QC03449 |

| Standard | Param | Flag | CCVs TRUE Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| CCV 1 | Phenol (mg/Kg) | | 60 | 56.32 | 94 | 5 - 57 | 6/27/00 | QC03472 |
| CCV 1 | 1,4-Dichlorobenzene (mg/Kg) | | 60 | 57.98 | 97 | 25 - 94 | 6/27/00 | QC03472 |
| CCV 1 | 2-Nitrophenol (mg/Kg) | | 60 | 60.78 | 101 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 2,4-Dichlorophenol (mg/Kg) | | 60 | 59.93 | 100 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Hexachlorobutadiene (mg/Kg) | | 60 | 57.74 | 96 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 4-Chloro-3-methylphenol (mg/Kg) | | 60 | 60.26 | 100 | 40 - 126 | 6/27/00 | QC03472 |
| CCV 1 | 2,4,6-Trichlorophenol (mg/Kg) | | 60 | 58.87 | 98 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Acenaphthene (mg/Kg) | | 60 | 57.01 | 95 | 47 - 118 | 6/27/00 | QC03472 |
| CCV 1 | Diphenylamine (mg/Kg) | | 60 | 55.95 | 93 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Pentachlorophenol (mg/Kg) | | 60 | 62.46 | 104 | 21 - 131 | 6/27/00 | QC03472 |
| CCV 1 | Fluoranthene (mg/Kg) | | 60 | 57.18 | 95 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Di-n-octylphthalate (mg/Kg) | | 60 | 59.68 | 99 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Benzo(a)pyrene (mg/Kg) | | 60 | 59.75 | 100 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 2-Fluorophenol (mg/Kg) | | 60 | 59.97 | 100 | 8 - 73 | 6/27/00 | QC03472 |
| CCV 1 | Phenol-d5 (mg/Kg) | | 60 | 59.74 | 100 | 8 - 62 | 6/27/00 | QC03472 |
| CCV 1 | Nitrobenzene-d5 (mg/Kg) | | 60 | 59.34 | 99 | 45 - 111 | 6/27/00 | QC03472 |
| CCV 1 | 2-Fluorobiphenyl (mg/Kg) | | 60 | 56.69 | 94 | 45 - 109 | 6/27/00 | QC03472 |
| CCV 1 | 2,4,6-Tribromophenol (mg/Kg) | | 60 | 56.18 | 94 | 39 - 132 | 6/27/00 | QC03472 |
| CCV 1 | Terphenyl-d14 (mg/Kg) | | 60 | 58.79 | 98 | 46 - 121 | 6/27/00 | QC03472 |

TRACEANALYSIS, INC.

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# Analytical and Quality Control Report

Wayne Price
OCD
2040 S. Pacheco
Santa Fe, NM 87505

Report Date: 7/5/00

Project Number: CRI
Project Name: N/A
Project Location: CRI Halfway

Order ID Number: A00062026

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to TraceAnalysis, Inc. for analysis:

| Sample Number | Sample Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 148447 | 0616001600 | Sludge | 6/16/00 | 16:00 | 6/20/00 |
| 148448 | 0616001700 | Sludge | 6/16/00 | 17:00 | 6/20/00 |

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

# Analytical Results Report

Sample Number: 148447
Description: 0616001600

| Param | Result | Dilution | Analytical Method | Date Prepared | Date Analyzed | Analyst | Prep Batch # | QC Batch # | RDL |
|---|---|---|---|---|---|---|---|---|---|
| 8260 (µg/Kg) | | | | | | | | | |
| Bromochloromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Dichlorodifluoromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Chloromethane (methyl chloride) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Vinyl Chloride | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Bromomethane (methyl bromide) | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| Chloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Trichlorofluoromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Acetone | <500 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 10 |
| Iodomethane (methyl iodide) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Carbon Disulfide | * 17254 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Acrylonitrile | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 2-Butanone (MEK) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 4-methyl-2-pentanone (MIBK) | <500 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 10 |
| 2-hexanone | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| trans 1,4-Dichloro-2-butene | <500 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 10 |
| 1,1-Dichloroethene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Methylene chloride | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| MTBE | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| trans-1,2-Dichloroethene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1-Dichloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| cis-1,2-dichloroethene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 2,2-Dichloropropane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dichloroethane (EDC) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Chloroform | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1,1-Trichloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1-Dichloropropene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Benzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Carbon Tetrachloride | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dichloropropane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Trichloroethene (TCE) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Dibromomethane (methylene bromide) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Bromodichloromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 2-Chloroethyl vinyl ether | <500 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 10 |
| cis-1,3-Dichloropropene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| trans-1,3-Dichloropropene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Toluene | 136 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1,2-Trichloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,3-Dichloropropane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Dibromochloromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dibromoethane (EDB) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Tetrachloroethene (PCE) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Chlorobenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1,1,2-Tetrachloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Ethylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| m,p-Xylene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Bromoform | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Styrene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| o-Xylene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 2-Chlorotoluene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2,3-Trichloropropane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Isopropylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Bromobenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| n-Propylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,3,5-Trimethylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| tert-Butylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2,4-Trimethylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,4-Dichlorobenzene (para) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| sec-Butylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,3-Dichlorobenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| p-Isopropyltoluene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 4-Chlorotoluene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dichlorobenzene (ortho) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| n-Butylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dibromo-3-chloropropane | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| 1,2,3-Trichlorobenzene | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| 1,2,4-Trichlorobenzene | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| Naphthalene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Hexachlorobutadiene | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |

* Carbon Disulfide - estimated concentration, response above standard range

| Surrogate (µg/Kg) | | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | * | 27.84 | 1 | 50 | 56 | 69 - 116 | JG | PB02952 | QC03429 |
| Toluene-d8 | | 45.38 | 1 | 50 | 91 | 80 - 120 | JG | PB02952 | QC03429 |
| 4-Bromofluorobenzene | | 52.21 | 1 | 50 | 104 | 80 - 120 | JG | PB02952 | QC03429 |

* Dibromofluoromethane - surrogate out of control limits due to matrix interfence

8270 (mg/Kg)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pyridine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodimethylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Picoline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Methyl methanesulfonate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Ethyl methanesulfonate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Aniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethyl) ether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,3-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,4-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzyl alcohol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2-Dichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroisopropyl) ether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Methylphenol/3-Methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acetophenone | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodi-n-propylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachloroethane | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Nitrobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosopiperidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Isophorone | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dimethylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethoxy) methane | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzoic acid | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

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|---|---|---|---|---|---|---|---|---|---|
| 2,4-Dichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4-Trichlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| a,a-Dimethylphenethylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Naphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobutadiene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitroso-di-n-butylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloro-3-methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Methylnaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylnaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4,5-Tetrachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorocyclopentadiene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,6-Trichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,5-Trichlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chloronaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Chloronaphthalene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dimethylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthylene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dinitrotoluene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzofuran | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitrophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Napthylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrotoluene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Napthylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,3,4,6-Tetrachlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluorene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diethylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chlorophenyl-phenylether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitroaniline | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4,6-Dinitro-2-methylphenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylamine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylhydrazine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Bromophenyl-phenylether | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenacetin | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Aminobiphenyl | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorophenol | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachloronitrobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pronamide | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenanthrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-butylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| p-Dimethylaminoazobenzene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Butylbenzylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3,3-Dichlorobenzidine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Chrysene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

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|---|---|---|---|---|---|---|---|---|---|
| Bis (2-ethylhexyl) phthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-octylphthalate | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(b)fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 7,12-Dimethylbenz(a)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(k)fluoranthene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Methylcholanthrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,j)acridine | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Indeno(1,2,3-cd)pyrene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,h)anthracene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(g,h,i)perylene | <375.00 | 1500 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| Surrogate (mg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 0.00 | 1500 | 80 | 0 | 8 - 73 | MA | PB02992 | QC03472 |
| Phenol-d5 | 9.35 | 1500 | 80 | 12 | 8 - 62 | MA | PB02992 | QC03472 |
| Nitrobenzene-d5 | 53.70 | 1500 | 80 | 67 | 45 - 111 | MA | PB02992 | QC03472 |
| 2-Fluorobiphenyl | 62.78 | 1500 | 80 | 78 | 45 - 109 | MA | PB02992 | QC03472 |
| 2,4,6-Tribromophenol | 0.00 | 1500 | 80 | 0 | 39 - 132 | MA | PB02992 | QC03472 |
| Terphenyl-d14 | 62.06 | 1500 | 80 | 78 | 46 - 121 | MA | PB02992 | QC03472 |

Sample Number: 148448
Description: 0616001700

| Param | Result | Dilution | Analytical Method | Date Prepared | Date Analyzed | Analyst | Prep Batch # | QC Batch # | RDL |
|---|---|---|---|---|---|---|---|---|---|
| 8260 (µg/Kg) | | | | | | | | | |
| Bromochloromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Dichlorodifluoromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Chloromethane (methyl chloride) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Vinyl Chloride | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Bromomethane (methyl bromide) | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| Chloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Trichlorofluoromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Acetone | <500 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 10 |
| Iodomethane (methyl iodide) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Carbon Disulfide | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Acrylonitrile | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 2-Butanone (MEK) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 4-methyl-2-pentanone (MIBK) | <500 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 10 |
| 2-hexanone | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| trans 1,4-Dichloro-2-butene | <500 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 10 |
| 1,1-Dichloroethene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Methylene chloride | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| MTBE | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| trans-1,2-Dichloroethene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1-Dichloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| cis-1,2-dichloroethene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 2,2-Dichloropropane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dichloroethane (EDC) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Chloroform | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1,1-Trichloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1-Dichloropropene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Benzene | 440 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Carbon Tetrachloride | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dichloropropane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Trichloroethene (TCE) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |

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|---|---|---|---|---|---|---|---|---|---|
| Dibromomethane (methylene bromide) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Bromodichloromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 2-Chloroethyl vinyl ether | <500 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 10 |
| cis-1,3-Dichloropropene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| trans-1,3-Dichloropropene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Toluene | 1497 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1,2-Trichloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,3-Dichloropropane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Dibromochloromethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dibromoethane (EDB) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Tetrachloroethene (PCE) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Chlorobenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1,1,2-Tetrachloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Ethylbenzene | 623 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| m,p-Xylene | 1228 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Bromoform | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Styrene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| o-Xylene | 510 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,1,2,2-Tetrachloroethane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 2-Chlorotoluene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2,3-Trichloropropane | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Isopropylbenzene | 113 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Bromobenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| n-Propylbenzene | 185 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,3,5-Trimethylbenzene | 243 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| tert-Butylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2,4-Trimethylbenzene | 594 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,4-Dichlorobenzene (para) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| sec-Butylbenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,3-Dichlorobenzene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| p-Isopropyltoluene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 4-Chlorotoluene | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dichlorobenzene (ortho) | <100 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| n-Butylbenzene | 197 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| 1,2-Dibromo-3-chloropropane | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| 1,2,3-Trichlorobenzene | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| 1,2,4-Trichlorobenzene | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |
| Naphthalene | * 1285 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 2 |
| Hexachlorobutadiene | <250 | 50 | S 8260B | 6/23/00 | 6/23/00 | JG | PB02952 | QC03429 | 5 |

* Naphthalene - RSD value exceeds 15% on intial calibration

| Surrogate (µg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 47.36 | 1 | 50 | 95 | 69 - 116 | JG | PB02952 | QC03429 |
| Toluene-d8 | 46.91 | 1 | 50 | 94 | 80 - 120 | JG | PB02952 | QC03429 |
| 4-Bromofluorobenzene | 51.99 | 1 | 50 | 104 | 80 - 120 | JG | PB02952 | QC03429 |

| 8270 (mg/Kg) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Pyridine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodimethylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Picoline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Methyl methanesulfonate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Ethyl methanesulfonate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Aniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethyl) ether | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,4-Dichlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzyl alcohol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2-Dichlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroisopropyl) ether | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Methylphenol/3-Methylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acetophenone | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosodi-n-propylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachloroethane | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Nitrobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitrosopiperidine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Isophorone | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitrophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dimethylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| bis (2-chloroethoxy) methane | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzoic acid | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dichlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4-Trichlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| a,a-Dimethylphenethylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Naphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloroaniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dichlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobutadiene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| n-Nitroso-di-n-butylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chloro-3-methylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Methylnaphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Methylnaphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1,2,4,5-Tetrachlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorocyclopentadiene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,6-Trichlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4,5-Trichlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Chloronaphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Chloronaphthalene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Nitroaniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dimethylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthylene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,6-Dinitrotoluene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Nitroaniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Acenaphthene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzofuran | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitrophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 1-Napthylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,4-Dinitrotoluene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2-Napthylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 2,3,4,6-Tetrachlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluorene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diethylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Chlorophenyl-phenylether | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Nitroaniline | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4,6-Dinitro-2-methylphenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylamine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Diphenylhydrazine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Bromophenyl-phenylether | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Phenacetin | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Hexachlorobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 4-Aminobiphenyl | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachlorophenol | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pentachloronitrobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pronamide | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Phenanthrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Anthracene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-butylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Fluoranthene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzidine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Pyrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| p-Dimethylaminoazobenzene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Butylbenzylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)anthracene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3,3-Dichlorobenzidine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Chrysene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Bis (2-ethylhexyl) phthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Di-n-octylphthalate | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(b)fluoranthene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 7,12-Dimethylbenz(a)anthracene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(k)fluoranthene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(a)pyrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| 3-Methylcholanthrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,j)acridine | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Indeno(1,2,3-cd)pyrene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Dibenzo(a,h)anthracene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |
| Benzo(g,h,i)perylene | <1500.00 | 6000 | S 8270C | 6/26/00 | 6/27/00 | MA | PB02992 | QC03472 | 0.25 |

| Surrogate (mg/Kg) | Result | Dilution | Spike Amount | % Rec. | % Rec. Limit | Analyst | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 0.00 | 6000 | 80 | 0 | 8 - 73 | MA | PB02992 | QC03472 |
| Phenol-d5 | 0.00 | 6000 | 80 | 0 | 8 - 62 | MA | PB02992 | QC03472 |
| Nitrobenzene-d5 | 0.00 | 6000 | 80 | 0 | 45 - 111 | MA | PB02992 | QC03472 |
| 2-Fluorobiphenyl | 54.50 | 6000 | 80 | 68 | 45 - 109 | MA | PB02992 | QC03472 |
| 2,4,6-Tribromophenol | 0.00 | 6000 | 80 | 0 | 39 - 132 | MA | PB02992 | QC03472 |
| Terphenyl-d14 | 56.09 | 6000 | 80 | 70 | 46 - 121 | MA | PB02992 | QC03472 |

# Quality Control Report
## Method Blanks

| Param | Flag | Blank Result | Reporting Limit | Date Analyzed | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|
| Bromochloromethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Dichlorodifluoromethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Chloromethane (methyl chloride) (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Vinyl Chloride (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Bromomethane (methyl bromide) (µg/Kg) | | <125 | 5 | 6/23/00 | PB02952 | QC03429 |
| Chloroethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Trichlorofluoromethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Acetone (µg/Kg) | | <250 | 10 | 6/23/00 | PB02952 | QC03429 |
| Iodomethane (methyl iodide) (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Carbon Disulfide (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Acrylonitrile (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 2-Butanone (MEK) (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 4-methyl-2-pentanone (MIBK) (µg/Kg) | | <250 | 10 | 6/23/00 | PB02952 | QC03429 |
| 2-hexanone (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| trans 1,4-Dichloro-2-butene (µg/Kg) | | <250 | 10 | 6/23/00 | PB02952 | QC03429 |
| 1,1-Dichloroethene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Methylene chloride (µg/Kg) | | <125 | 5 | 6/23/00 | PB02952 | QC03429 |
| MTBE (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| trans-1,2-Dichloroethene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,1-Dichloroethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| cis-1,2-dichloroethene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 2,2-Dichloropropane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,2-Dichloroethane (EDC) (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Chloroform (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,1,1-Trichloroethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,1-Dichloropropene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Benzene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Carbon Tetrachloride (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,2-Dichloropropane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Trichloroethene (TCE) (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Dibromomethane (methylene bromide) (µg | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Bromodichloromethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 2-Chloroethyl vinyl ether (µg/Kg) | | <250 | 10 | 6/23/00 | PB02952 | QC03429 |
| cis-1,3-Dichloropropene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| trans-1,3-Dichloropropene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Toluene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,1,2-Trichloroethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,3-Dichloropropane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Dibromochloromethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,2-Dibromoethane (EDB) (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Tetrachloroethene (PCE) (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Chlorobenzene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,1,1,2-Tetrachloroethane (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Ethylbenzene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| m,p-Xylene (µg/Kg) | | <50 | 2 | 6/23/00 | PB02952 | QC03429 |

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|---|---|---|---|---|---|
| Bromoform (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Styrene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| o-Xylene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,1,2,2-Tetrachloroethane (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 2-Chlorotoluene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,2,3-Trichloropropane (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Isopropylbenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Bromobenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| n-Propylbenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,3,5-Trimethylbenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| tert-Butylbenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,2,4-Trimethylbenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,4-Dichlorobenzene (para) (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| sec-Butylbenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,3-Dichlorobenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| p-Isopropyltoluene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 4-Chlorotoluene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,2-Dichlorobenzene (ortho) (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| n-Butylbenzene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| 1,2-Dibromo-3-chloropropane (µg/Kg) | <125 | 5 | 6/23/00 | PB02952 | QC03429 |
| 1,2,3-Trichlorobenzene (µg/Kg) | <125 | 5 | 6/23/00 | PB02952 | QC03429 |
| 1,2,4-Trichlorobenzene (µg/Kg) | <125 | 5 | 6/23/00 | PB02952 | QC03429 |
| Naphthalene (µg/Kg) | <50 | 2 | 6/23/00 | PB02952 | QC03429 |
| Hexachlorobutadiene (µg/Kg) | <125 | 5 | 6/23/00 | PB02952 | QC03429 |

| Surrogate | Result | Spike Amount | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|
| Dibromofluoromethane (µg/Kg) | 47.55 | 50 | 95 | 69 - 116 | QC03429 |
| Toluene-d8 (µg/Kg) | 46.53 | 50 | 93 | 80 - 120 | QC03429 |
| 4-Bromofluorobenzene (µg/Kg) | 48.18 | 50 | 96 | 80 - 120 | QC03429 |

| Param | Flag | Blank Result | Reporting Limit | Date Analyzed | Prep Batch # | QC Batch # |
|---|---|---|---|---|---|---|
| Pyridine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosodimethylamine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Picoline (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Methyl methanesulfonate (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Ethyl methanesulfonate (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Aniline (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroethyl) ether (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Chlorophenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,3-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,4-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzyl alcohol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2-Dichlorobenzene (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Methylphenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroisopropyl) ether (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Methylphenol/3-Methylphenol (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acetophenone (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosodi-n-propylamine (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachloroethane (mg/Kg) | | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |

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|---|---|---|---|---|---|
| Nitrobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitrosopiperidine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Isophorone (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Nitrophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dimethylphenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| bis (2-chloroethoxy) methane (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzoic acid (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dichlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2,4-Trichlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| a,a-Dimethylphenethylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Naphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chloroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,6-Dichlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorobutadiene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| n-Nitroso-di-n-butylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chloro-3-methylphenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Methylnaphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Methylnaphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1,2,4,5-Tetrachlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorocyclopentadiene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4,6-Trichlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4,5-Trichlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Chloronaphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Chloronaphthalene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dimethylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acenaphthylene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,6-Dinitrotoluene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Acenaphthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dinitrophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzofuran (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Nitrophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 1-Napthylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2-Napthylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 2,3,4,6-Tetrachlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Fluorene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diethylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Chlorophenyl-phenylether (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Nitroaniline (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4,6-Dinitro-2-methylphenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diphenylamine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Diphenylhydrazine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Bromophenyl-phenylether (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenacetin (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Hexachlorobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 4-Aminobiphenyl (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachlorophenol (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pentachloronitrobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |

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|---|---|---|---|---|---|
| Pronamide (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Phenanthrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Di-n-butylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzidine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| p-Dimethylaminoazobenzene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Butylbenzylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(a)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3,3-Dichlorobenzidine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Chrysene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Bis (2-ethylhexyl) phthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Di-n-octylphthalate (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(b)fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 7,12-Dimethylbenz(a)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(k)fluoranthene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(a)pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| 3-Methylcholanthrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzo(a,j)acridine (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Indeno(1,2,3-cd)pyrene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Dibenzo(a,h)anthracene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |
| Benzo(g,h,i)perylene (mg/Kg) | <0.25 | 0.25 | 6/27/00 | PB02992 | QC03472 |

| Surrogate | Result | Spike Amount | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|
| 2-Fluorophenol (mg/L) | 39.03 | 80 | 49 | 8 - 73 | QC03472 |
| Phenol-d5 (mg/L) | 45.38 | 80 | 57 | 8 - 62 | QC03472 |
| Nitrobenzene-d5 (mg/L) | 45.38 | 80 | 57 | 45 - 111 | QC03472 |
| 2-Fluorobiphenyl (mg/L) | 47.21 | 80 | 59 | 45 - 109 | QC03472 |
| 2,4,6-Tribromophenol (mg/L) | 46.85 | 80 | 59 | 39 - 132 | QC03472 |
| Terphenyl-d14 (mg/L) | 48.35 | 80 | 60 | 46 - 121 | QC03472 |

# Quality Control Report
## Lab Control Spikes and Duplicate Spike

| | Param | Blank Result | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS | 1,1-Dichloroethene (ug/Kg) | <50 | 1 | 100 | 101 | 101 | | 80 - 120 | - | QC03429 |
| LCS | Benzene (ug/Kg) | <50 | 1 | 100 | 101 | 101 | | 80 - 120 | - | QC03429 |
| LCS | Trichloroethene (TCE) (ug/Kg) | <50 | 1 | 100 | 104 | 104 | | 80 - 120 | - | QC03429 |
| LCS | Toluene (ug/Kg) | <50 | 1 | 100 | 100 | 100 | | 80 - 120 | - | QC03429 |
| LCS | Chlorobenzene (ug/Kg) | <50 | 1 | 100 | 99 | 99 | | 80 - 120 | - | QC03429 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCS | Dibromofluoromethane (µg/Kg) | 1 | 50 | 46.67 | 93 | 69 - 116 | QC03429 |
| LCS | Toluene-d8 (µg/Kg) | 1 | 50 | 46.56 | 93 | 80 - 120 | QC03429 |
| LCS | 4-Bromofluorobenzene (µg/Kg) | 1 | 50 | 48.20 | 96 | 80 - 120 | QC03429 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LCSD | 1,1-Dichloroethene (ug/Kg) | <50 | 1 | 100 | 102 | 102 | 1 | - | 0 - 20 | QC03429 |
| LCSD | Benzene (ug/Kg) | <50 | 1 | 100 | 100 | 100 | 1 | - | 0 - 20 | QC03429 |
| LCSD | Trichloroethene (TCE) (ug/Kg) | <50 | 1 | 100 | 102 | 102 | 2 | - | 0 - 20 | QC03429 |
| LCSD | Toluene (ug/Kg) | <50 | 1 | 100 | 99 | 99 | 1 | - | 0 - 20 | QC03429 |
| LCSD | Chlorobenzene (ug/Kg) | <50 | 1 | 100 | 98 | 98 | 1 | - | 0 - 20 | QC03429 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCSD | Dibromofluoromethane (µg/Kg) | 1 | 50 | 46.50 | 93 | 69 - 116 | QC03429 |
| LCSD | Toluene-d8 (µg/Kg) | 1 | 50 | 46.85 | 94 | 80 - 120 | QC03429 |
| LCSD | 4-Bromofluorobenzene (µg/Kg) | 1 | 50 | 48.47 | 97 | 80 - 120 | QC03429 |

| | Param | Blank Result | Dil. | Spike Amount Added | Matrix Spike Result | % Rec. | RPD | % Rec. Limit | RPD Limit | QC Batch # |
|---|---|---|---|---|---|---|---|---|---|---|
| LCS | Phenol (mg/Kg) | <0.25 | 1 | 80 | 39.70 | 50 | | 5 - 57 | - | QC03472 |
| LCS | 2-Chlorophenol (mg/Kg) | <0.25 | 1 | 80 | 39.94 | 50 | | 29 - 110 | - | QC03472 |
| LCS | 1,4-Dichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 41.65 | 52 | | 25 - 94 | - | QC03472 |
| LCS | n-Nitrosodi-n-propylamine (mg/Kg) | <0.25 | 1 | 80 | 44.56 | 56 | | 36 - 119 | - | QC03472 |
| LCS | 1,2,4-Trichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 45.76 | 57 | | 28 - 110 | - | QC03472 |
| LCS | 4-Chloro-3-methylphenol (mg/Kg) | <0.25 | 1 | 80 | 43.24 | 54 | | 40 - 126 | - | QC03472 |
| LCS | Acenaphthene (mg/Kg) | <0.25 | 1 | 80 | 45.79 | 57 | | 47 - 118 | - | QC03472 |
| LCS | 4-Nitrophenol (mg/Kg) | <0.25 | 1 | 80 | 28.42 | 36 | | 0 - 69 | - | QC03472 |
| LCS | 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 1 | 80 | 49.24 | 62 | | 46 - 133 | - | QC03472 |
| LCS | Pentachlorophenol (mg/Kg) | <0.25 | 1 | 80 | 29.97 | 37 | | 21 - 131 | - | QC03472 |
| LCS | Pyrene (mg/Kg) | <0.25 | 1 | 80 | 47.78 | 60 | | 44 - 125 | - | QC03472 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCS | 2-Fluorophenol (mg/L) | 1 | 80 | 40.81 | 51 | 8 - 73 | QC03472 |
| LCS | Phenol-d5 (mg/L) | 1 | 80 | 44.52 | 56 | 8 - 62 | QC03472 |
| LCS | Nitrobenzene-d5 (mg/L) | 1 | 80 | 47.07 | 59 | 45 - 111 | QC03472 |
| LCS | 2-Fluorobiphenyl (mg/L) | 1 | 80 | 45.53 | 57 | 45 - 109 | QC03472 |
| LCS | 2,4,6-Tribromophenol (mg/L) | 1 | 80 | 46.54 | 58 | 39 - 132 | QC03472 |
| LCS | Terphenyl-d14 (mg/L) | 1 | 80 | 46.63 | 58 | 46 - 121 | QC03472 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| LCSD | Phenol (mg/Kg) | <0.25 | 1 | 80 | 37.09 | 46 | 7 | - | 0 - 20 | QC03472 |
| LCSD | 2-Chlorophenol (mg/Kg) | <0.25 | 1 | 80 | 36.29 | 45 | 10 | - | 0 - 20 | QC03472 |
| LCSD | 1,4-Dichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 40.80 | 51 | 2 | - | 0 - 20 | QC03472 |
| LCSD | n-Nitrosodi-n-propylamine (mg/Kg) | <0.25 | 1 | 80 | 47.55 | 59 | 6 | - | 0 - 20 | QC03472 |
| LCSD | 1,2,4-Trichlorobenzene (mg/Kg) | <0.25 | 1 | 80 | 44.61 | 56 | 3 | - | 0 - 20 | QC03472 |
| LCSD | 4-Chloro-3-methylphenol (mg/Kg) | <0.25 | 1 | 80 | 47.02 | 59 | 8 | - | 0 - 20 | QC03472 |
| LCSD | Acenaphthene (mg/Kg) | <0.25 | 1 | 80 | 49.58 | 62 | 8 | - | 0 - 20 | QC03472 |
| LCSD | 4-Nitrophenol (mg/Kg) | <0.25 | 1 | 80 | 31.20 | 39 | 9 | - | 0 - 20 | QC03472 |
| LCSD | 2,4-Dinitrotoluene (mg/Kg) | <0.25 | 1 | 80 | 53.94 | 67 | 9 | - | 0 - 20 | QC03472 |
| LCSD | Pentachlorophenol (mg/Kg) | <0.25 | 1 | 80 | 36.00 | 45 | 18 | - | 0 - 20 | QC03472 |
| LCSD | Pyrene (mg/Kg) | <0.25 | 1 | 80 | 47.94 | 60 | 0 | - | 0 - 20 | QC03472 |

| Standard | Surrogate | Dil. | Spike Amount | Result | % Rec. | % Rec. Limit | QC Batch # |
|---|---|---|---|---|---|---|---|
| LCSD | 2-Fluorophenol (mg/L) | 1 | 80 | 37.75 | 47 | 8 - 73 | QC03472 |
| LCSD | Phenol-d5 (mg/L) | 1 | 80 | 43.00 | 54 | 8 - 62 | QC03472 |
| LCSD | Nitrobenzene-d5 (mg/L) | 1 | 80 | 44.78 | 56 | 45 - 111 | QC03472 |
| LCSD | 2-Fluorobiphenyl (mg/L) | 1 | 80 | 45.62 | 57 | 45 - 109 | QC03472 |
| LCSD | 2,4,6-Tribromophenol (mg/L) | 1 | 80 | 50.00 | 63 | 39 - 132 | QC03472 |
| LCSD | Terphenyl-d14 (mg/L) | 1 | 80 | 46.87 | 59 | 46 - 121 | QC03472 |

# Quality Control Report
## Continuing Calibration Verification Standard

| Standard | Param | Flag | CCVs TRUE Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| CCV 1 | Vinyl Chloride (µg/Kg) | | 100 | 97 | 97 | 80 - 120 | 6/23/00 | QC03429 |
| CCV 1 | 1,1-Dichloroethene (µg/Kg) | | 100 | 100 | 100 | 80 - 120 | 6/23/00 | QC03429 |
| CCV 1 | Chloroform (µg/Kg) | | 100 | 95 | 95 | 80 - 120 | 6/23/00 | QC03429 |
| CCV 1 | 1,2-Dichloropropane (µg/Kg) | | 100 | 99 | 99 | 80 - 120 | 6/23/00 | QC03429 |
| CCV 1 | Toluene (µg/Kg) | | 100 | 102 | 102 | 80 - 120 | 6/23/00 | QC03429 |
| CCV 1 | Chlorobenzene (µg/Kg) | | 100 | 98 | 98 | 80 - 120 | 6/23/00 | QC03429 |
| CCV 1 | Ethylbenzene (µg/Kg) | | 100 | 101 | 101 | 80 - 120 | 6/23/00 | QC03429 |
| CCV 1 | Dibromofluoromethane (µg/Kg) | | 50 | 47.29 | 95 | 83 - 121 | 6/23/00 | QC03429 |
| CCV 1 | Toluene-d8 (µg/Kg) | | 50 | 46.46 | 93 | 91 - 108 | 6/23/00 | QC03429 |
| CCV 1 | 4-Bromofluorobenzene (µg/Kg) | | 50 | 50.79 | 102 | 80 - 120 | 6/23/00 | QC03429 |

| Standard | Param | Flag | CCVs TRUE Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed | QC Batch # |
|---|---|---|---|---|---|---|---|---|
| CCV 1 | Phenol (mg/Kg) | | 60 | 56.32 | 94 | 5 - 57 | 6/27/00 | QC03472 |
| CCV 1 | 1,4-Dichlorobenzene (mg/Kg) | | 60 | 57.98 | 97 | 25 - 94 | 6/27/00 | QC03472 |
| CCV 1 | 2-Nitrophenol (mg/Kg) | | 60 | 60.78 | 101 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 2,4-Dichlorophenol (mg/Kg) | | 60 | 59.93 | 100 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Hexachlorobutadiene (mg/Kg) | | 60 | 57.74 | 96 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 4-Chloro-3-methylphenol (mg/Kg) | | 60 | 60.26 | 100 | 40 - 126 | 6/27/00 | QC03472 |
| CCV 1 | 2,4,6-Trichlorophenol (mg/Kg) | | 60 | 58.87 | 98 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Acenaphthene (mg/Kg) | | 60 | 57.01 | 95 | 47 - 118 | 6/27/00 | QC03472 |
| CCV 1 | Diphenylamine (mg/Kg) | | 60 | 55.95 | 93 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Pentachlorophenol (mg/Kg) | | 60 | 62.46 | 104 | 21 - 131 | 6/27/00 | QC03472 |
| CCV 1 | Fluoranthene (mg/Kg) | | 60 | 57.18 | 95 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Di-n-octylphthalate (mg/Kg) | | 60 | 59.68 | 99 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | Benzo(a)pyrene (mg/Kg) | | 60 | 59.75 | 100 | 80 - 120 | 6/27/00 | QC03472 |
| CCV 1 | 2-Fluorophenol (mg/Kg) | | 60 | 59.97 | 100 | 8 - 73 | 6/27/00 | QC03472 |
| CCV 1 | Phenol-d5 (mg/Kg) | | 60 | 59.74 | 100 | 8 - 62 | 6/27/00 | QC03472 |
| CCV 1 | Nitrobenzene-d5 (mg/Kg) | | 60 | 59.34 | 99 | 45 - 111 | 6/27/00 | QC03472 |
| CCV 1 | 2-Fluorobiphenyl (mg/Kg) | | 60 | 56.69 | 94 | 45 - 109 | 6/27/00 | QC03472 |
| CCV 1 | 2,4,6-Tribromophenol (mg/Kg) | | 60 | 56.18 | 94 | 39 - 132 | 6/27/00 | QC03472 |
| CCV 1 | Terphenyl-d14 (mg/Kg) | | 60 | 58.79 | 98 | 46 - 121 | 6/27/00 | QC03472 |

148445-50 1597-2515 4



6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

# TraceAnalysis, Inc.

4725 Ripley Dr., Ste A
El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A000620026

Company Name: New Mex. Oil Conservation Division
Phone #: (505) 827 7155
Address: (Street, City, Zip) 2040 South Pacheco, Santa Fe, NM, 87505
Fax #: (505) 827-8177
Contact Person: Wayne Price
Invoice to: (If different from above)
Project #: ~~06-16-00~~ ~~061600~~ CRI
Project Name:
Project Location: CRI Halfway
Sampler Signature: Montgomery J Kelly

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCL | HNO3 | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 148445 | 061600 1505 | 1 | ½l | X | | | X | | X | X | | 06/16/00 | |
| | 061600 1505 | 2 | 40ml | X | | | X | X | | X | | 06/16/00 | |
| | 061600 1505 | 1 | l | X | | | X | | | X | | 06/16/00 | |
| 148446 | 061600 1520 | 1 | ½l | X | | | X | | X | X | | 06/16/00 | |
| | 061600 1520 | 2 | 40ml | X | | | X | X | | X | | 06/16/00 | |
| | 061600 1520 | 1 | l | X | | | X | | | X | | 06/16/00 | |
| 148447 | 061600 1600 | 1 | ½l | X | | | X | | X | X | | 06/16/00 | |
| | 061600 1600 | 2 | 40ml | X | | | X | X | | X | | 06/16/00 | |
| | 061600 1600 | 1 | l | X | | | X | | | X | | 06/16/00 | |
| | ~~061600 1630~~ | ~~1~~ | ~~½l~~ | ~~X~~ | | | ~~X~~ | | ~~X~~ | ~~X~~ | | ~~06/16/00~~ | |
| 148454 | ~~061600 1630~~ | 2 | 40ml | X | | | X | X | | X | | 06/16/00 | |

ANALYSIS REQUEST (Circle or Specify Method No.)

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC-MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | CRI | | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | X | | | | | | | | | | | | | | |
| | | | | | | | | | ✓ | X | | | | | | | | |
| | | | | | | | | | | | X | | | | | | | |
| | | | | X | | | | | | | | | | | | | | |
| | | | | | | | | | ✓ | X | | | | | | | | |
| | | | | | | | | | | | X | | | | | | | |
| | | | | X | | | | | | | | | | | | | | |
| | | | | | | | | | | X | | | | | ✓ | | | |
| | | | | | | | | | Contr. ✓ React | | X | | | | | | | |
| | | | | X | | | | | | | | | | | | | | |
| | | | | | | | | | | X | | | | | | | | |

Relinquished by: Trip Date: Blank Time:
Montgomery J Kelly 06-19-00 9:15 am
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Vicki Hensley 6-20-00 10:00

REMARKS: 8260

LAB USE ONLY
Intact (Y) / N
Headspace Y / (N)
Temp 3° C
Log-in Review MS

7/5

Carrier # Fed Ex 821264074421

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

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Fed Ex 1597-2515 4



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Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

# TraceAnalysis, Inc.

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El Paso, Texas 79922-1028
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

Company Name: NewMexico Oil Conservation Division
Phone #: (505) 827-7155
Address: (Street, City, Zip) 2040 South Pacheco, Santa Fe, NM 87505
Fax #: (505) 827-8177
Contact Person: Wayne Price
Invoice to: (If different from above)
Project #: ~~96-1600~~ CRI
Project Name:
Project Location: CRI Halfway
Sampler Signature: Martyn J Thuly

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCL | HNO3 | ICE | NONE | SAMPLING: DATE | TIME |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0616001630 | 1 | 1 | X | | | X | | | X | | 6/16 | |
| 148448 | 061600 1700 | 1 | ½l | X | | | X | | X | X | | | |
| | 061600 1700 | 2 | 40ml | X | | | X | X | | X | | | |
| | 0616001700 | 1 | 1 | X | | | X | | | X | | | |
| | | | | | | | | | | | | | |
| 148449 | 0616001630 | 1 | ½l | X | | | X | | X | X | | | |
| | 0616001630 | 2 | 40ml | X | | | X | X | | X | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 148450 | Trip Blank VH | 2VH | | | | | | | | | | | |
| | | | | | | | | | | | | | |

ANALYSIS REQUEST
(Circle or Specify Method No.)

| MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/TX1005 | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC-MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | | | | | Turn Around Time if different from standard | Hold |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | X | | | | | | | | | |
| | | | | X | | | | | | | | | | | | | | | | |
| | | | | | | | | | | ✓ | X | | | | | | | | | |
| | | | | | | | | | | | X | | | | | | | | | |
| | | | | X | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | X | | | | | | | | | |
| | | | | | | | | | | | VH ✓ | | | | | | | | | |

Relinquished by: Martyn J Thuly Date: 06-19-00 Time: 9:15 Am
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Vicki Hensley Date: 6/20/00 Time: 10:00

LAB USE ONLY
Intact Y / N
Headspace Y / N
Temp 4° °
Log-in Review

REMARKS:

Carrier # Fedex 821264074410

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

# FedEx USA Airbill

FedEx Tracking Number 821264074410

Form I.D. No. 0200

**1 From** *Please print and press hard.*

Date 06-19-00 Sender's FedEx Account Number

Sender's Name Martyne Kieling Phone (505) 827-7153

Company New Mexico Oil Conservation Division

Address 2040 South Pacheco

Dept./Floor/Suite/Room

City Santa Fe State NM ZIP 87505

**2 Your Internal Billing Reference**
First 24 characters will appear on invoice.

**3 To**

Recipient's Name Trace Analysis, Inc Phone (806) 794-1296

Company Trace Analysis

Address 6701 Aberdeen AVE, Ste 9

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here.

City Lubbock State TX ZIP 79424

**Questions? Call 1·800·Go·FedEx®** (800-463-3339)
**Visit our Web site at www.fedex.com**

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

**4a Express Package Service** — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate no… Minimum charge: One…

**4b Express Freight Service** — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

**5 Packaging** — * Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

**6 Special Handling**

- [ ] **Saturday Delivery** — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **Sunday Delivery** — Available for FedEx Priority Overnight to select ZIP codes
- [ ] **HOLD Weekday at FedEx Location** — Not available with FedEx First Overnight
- [ ] **HOLD Saturday at FedEx Location** — Available for FedEx Priority Overnight and FedEx 2Day to select locations

**Does this shipment contain dangerous goods?** One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

**7 Payment** *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. 159725154 Exp. Date

| Total Packages | Total Weight | Total Declared Value† |
|---|---|---|
| 1 | 42 | $ .00 |

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

**8 Release Signature** *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

360

Rev. Date 11/98•Part #154815-[illegible] ©1994-98 FedEx•PRINTED IN U.S.A. GBFE 4/00

RETAIN THIS COPY FOR YOUR RECORDS

# FedEx® USA Airbill

FedEx Tracking Number 821264074421

Form I.D. No. 0200

**1 From** *Please print and press hard.*

Date 06-19-00 Sender's FedEx Account Number

Sender's Name Martyne Kieling Phone (505) 827-7153

Company ~~OCD~~ New Mexico Oil Conservation Division

Address 2040 South Pacheco

Dept./Floor/Suite/Room

City Santa Fe State NM ZIP 87505

**2 Your Internal Billing Reference**
First 24 characters will appear on invoice.

**3 To**

Recipient's Name Trace Analysis, Inc Phone (806) 794 1296

Company Trace Analysis

Address 6701 Aberdeen AVE, STE 9
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

To "HOLD" at FedEx location, print FedEx address here.

City Lubbock State TX ZIP 79424

**4a Express Package Service** — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day* — Second business day
- [ ] FedEx Express Saver* — Third business day

* FedEx Letter Rate no… Minimum charge: One…

**4b Express Freight Service** — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

**5 Packaging** — * Declared value limit $500

- [ ] FedEx Letter*
- [ ] FedEx Pak*
- [X] Other Pkg. — Includes FedEx Box, FedEx Tube, and customer pkg.

**6 Special Handling**

- [ ] **Saturday Delivery** — Available for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **Sunday Delivery** — Available for FedEx Priority Overnight to select ZIP codes
- [ ] **HOLD Weekday at FedEx Location** — Not available with FedEx First Overnight
- [ ] **HOLD Saturday at FedEx Location** — Available for FedEx Priority Overnight and FedEx 2Day to select locations

**Does this shipment contain dangerous goods?** One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg

Dangerous Goods cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

**7 Payment** *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. or Credit Card No. 159725154 Exp. Date

| Total Packages | Total Weight | Total Declared Value† |
|---|---|---|
| 1 | 40 | $ .00 |

†Our liability is limited to $100 unless you declare a higher value. See back for details.

FedEx Use Only

**8 Release Signature** *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

360

**Questions? Call 1·800·Go·FedEx®** (800-463-3339)
**Visit our Web site at www.fedex.com**

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.



RETAIN THIS COPY FOR YOUR RECORDS

List For Trip

water
Ice
Towles
Gloves?
PUC

8260
8270
8 Metals Total
Ar
Se
Ag
Ba
Hg
Cr
Pb
Cd.

CRI

Sampling
Martyne Kieling OCD
~~Donna Williams OCD~~
Ed Martin OCD
Roger Anderson OCD

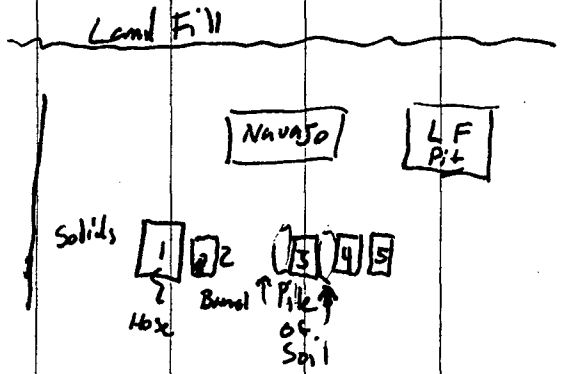
Date 6-16-00
Time 2:45 pm.

Ken Mas1 CRI witness all 5 samples

OCD stoped by CRI office & Talked to Chuwalk to call Ken.

Scope of work to take 5 aqueous Samples from Non Exempt Pits #1 #2 and Excavated Pit into Land Fill, and Surface pit in Land Fil and if accessable with enough liquid one of the Land Fill Cells. Samples will be Iced and Secured and Sent to Trace Analysis For Processing.

Purpose To Determine if there are any Hazardous Constituents in The Non exempt Pits (There Shold not Be any) and If there are any Hazardous Constituents in the liquids in the Land Fill Area. Liquids are Not Supposed to be Placed in the land Fill area. But Materials Put There Are Both exempt & Non exempt So Hazardous Results of Some Constituents are likely others May not Be oil field Related Such as Some Solvents. we will Determine what types of Hazardous Components are Present.




Sample 061600 1505 Pit #11 Non Exempt
8260, 8270, 8 metal Total RCRA, Ig

061600 1520 Pit #12 Non-Exempt
8260, 8270, 8 RCRA Metals Total, Ig

061600 1600 Pit LF#1 with Hose
8260, 8270, 8 RCRA Metal total, React Chaos, ity.

061600 1630 Pit LF 3
8260 8270, 8 RCRA Metals Total

061600 1700 Pit LF NAVAJO
8260, 8270, 8 RCRA metals tota, Ig

Pit LF 1 Had Hose and Sickning odor (Mercaptain? or other) was Green Sludge and Burned Skin. Ed martin

Pit LF 3 Black Sludge Dryed Fast and Left Powerdy Residue Iron Sulfide?

Pit LF NAV Navajo Dedicated Pit Sludge was thick and Sticky like Syurp.

Pit #11 Non Exempt was Sludgey with ~~water~~ liquid.

Pit #12 Non Exempt very thick Sludge with Rain water? on top?
8260 was Liquid (Rainwater)
8270 } - were Sludge.
Metals }

Check MSDS on Mercaptain
Check CRI ODOR FILE.