LOOP LLC

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TELEPHONE (985) 276-6100 • FAX (985) 276-6279

January 29, 2016

Ms. Jennifer Sheppard
General and Industrial Water Permits Manager
Louisiana Department of Environmental Quality
Office of Environmental Services
Water Permits Division
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

**RE: LOOP LLC**
**Deepwater Port Complex**
**LPDES Permit No. LA0049492**
**Agency Interest No. 4634**

Dear Ms. Sheppard:

LOOP LLC (LOOP), Deepwater Port Complex, herewith submits additional information relevant to the draft Louisiana Pollutant Discharge Elimination System (LPDES)/National Pollutant Discharge Elimination System (NPDES) permit issued by the Louisiana Department of Environmental Quality (LDEQ) and U.S. Environmental Protection Agency (EPA) on June 6, 2014.

As requested by LDEQ and EPA, LOOP conducted sampling and analysis at the brine storage reservoir (Outfall 004) in an effort to provide additional effluent characterization of the brine. The contract laboratory had significant problems with matrix interference due to the elevated concentration of dissolved inorganic substances (primarily naturally-occurring salts and minerals) in the sample whereby certain Minimum Quantification Levels (MQLs) for mostly metals were not achievable. Significant effort was undertaken to analyze the samples and evaluate the results and Quality Control (QC) summaries. Attached is the LDEQ IND Form for Outfall 004 with the effluent characterization data. The effluent characterization data is consistent with brine and indicates no presence of organic pollutants at the MQLs. ?

As previously submitted to the LDEQ and EPA, Outfall 004 discharges on an infrequent basis and has a multi-port diffuser to enhance mixing and minimize environmental impacts to aquatic life. LOOP does not believe any additional permit limitations or monitoring requirements are appropriate for the brine discharge in the existing permit.

If you have any questions, please feel free to contact me at (985) 276-6299.

Sincerely,

Cynthia A. Gardner-LeBlanc

Cynthia A. Gardner-LeBlanc
Manager Regulatory Affairs

cc: Sonja Loyd, LDEQ
Kay Schwab, EPA
Paul Kaspar, EPA,
Doug LaBar, CK Associates

# SECTION III – LABORATORY ANALYSIS

**TABLE I:**

CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|
| | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | | |
| | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS |
| $BOD_5$ | NA | NA | NA | NA | NA | NA | NA | NA |
| COD | 1,070 | NA | NA | NA | NA | NA | mg/L | NA |
| TOC | 40.7 | NA | NA | NA | NA | NA | mg/L | NA |
| Oil & Grease | NA | NA | NA | NA | NA | NA | NA | NA |
| Ammonia (as N) | 0.29 | NA | NA | NA | NA | NA | mg/L | |
| Total Suspended Solids (TSS) | NA | NA | NA | NA | NA | NA | NA | NA |
| Total Dissolved Solids (TDS)[1] | NA | NA | NA | NA | NA | NA | NA | NA |
| Hardness as $CaCo_3$[1] | NA | NA | NA | NA | NA | NA | NA | NA |
| Flow | Value NA | | Value NA | | Value NA | | NA | NA |
| Temperature (winter) °F | Value NA | | Value NA | | Value NA | | DEGREES FAHRENHEIT | |
| Temperature (summer) °F | Value NA | | Value NA | | Value NA | | DEGREES FAHRENHEIT | |
| pH (SU) | Minimum NA | Maximum NA | Minimum NA | Maximum NA | | | STANDARD UNITS | |

[1] TDS and Hardness are required for discharges of cooling tower blowdown.

# SECTION III – LABORATORY ANALYSIS

**TABLE II:**

OTHER TOXIC POLLUTANTS (METALS AND CYANIDE) AND TOTAL PHENOLS

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| Antimony, Total | | | X | 60 | <1,000 | NA | NA | NA | NA | NA | ug/L | NA |
| Arsenic, Total | | | X | 5 | <2,000 | NA | NA | NA | NA | NA | ug/L | NA |
| Beryllium, Total | | | X | 0.5 | <1,000 | NA | NA | NA | NA | NA | ug/L | NA |
| Cadmium, Total | | | X | 1 | <1,000 | NA | NA | NA | NA | NA | ug/L | NA |
| Chromium, Total | | | X | 10 | <100 | NA | NA | NA | NA | NA | ug/L | NA |
| Copper, Total | | | X | 3 | <1,000 | NA | NA | NA | NA | NA | ug/L | NA |
| Lead, Total | | | X | 2 | <500 | NA | NA | NA | NA | NA | ug/L | NA |
| Mercury, Total | | | X | 0.0005/ 0.005 | <0.0005 | NA | NA | NA | NA | NA | ug/L | NA |
| Nickel, Total [Marine] | | | X | 5 | <1,000 | NA | NA | NA | NA | NA | ug/L | NA |
| Nickel, Total [Freshwater] | | | | 5 | NA | NA | NA | NA | NA | NA | ug/L | NA |
| Selenium, Total | | | X | 5 | <2,500 | NA | NA | NA | NA | NA | ug/L | NA |
| Silver, Total | | | X | 0.5 | <500 | NA | NA | NA | NA | NA | ug/L | NA |
| Thallium, Total | | | X | 0.5 | <1,000 | NA | NA | NA | NA | NA | ug/L | NA |
| Zinc, Total | | X | | 20 | 327 | NA | NA | NA | NA | NA | ug/L | NA |
| Cyanide, Total | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| Phenols, Total | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |

(*) Minimum Quantification Level (MQL)

# SECTION III – LABORATORY ANALYSIS

**TABLE III:**

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| **VOLATILE ORGANIC CHEMICALS – EPA METHOD 624 SUGGESTED** | | | | | | | | | | | | |
| acrolein | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |
| acrylonitrile | | | X | 20 | <20 | NA | NA | NA | NA | NA | ug/L | NA |
| benzene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| bromoform | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| carbon tetrachloride | | | X | 2 | <2 | NA | NA | NA | NA | NA | ug/L | NA |
| chlorobenzene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| chlorodibromomethane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| chloroethane | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |
| 2-chloroethylvinyl ether | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| chloroform | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| dichlorobromomethane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,1-dichloroethane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,2-dichloroethane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,1-dichloroethylene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,2-dichloropropane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,3-Dichloropropylene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| ethylbenzene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| methyl bromide | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |
| methyl chloride | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE III:**

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| methylene chloride | | | X | 20 | <20 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,1,2,2-tetrachloroethane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| tetrachloroethylene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| toluene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,2-trans-dichloroethylene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,1,1-trichloroethane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,1,2-trichloroethane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| trichloroethene (trichloroethylene) | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| vinyl chloride (chloroethylene) | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| **ACID EXTRACTABLE ORGANIC CHEMICAL – EPA METHOD 625 SUGGESTED** | | | | | | | | | | | | |
| 2-chlorophenol | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 2,4-dichlorophenol | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 2,4-dimethylphenol | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 2,4-dinitrophenol | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |
| 2-methyl 4,6-dinitrophenol (4,6-dinitro-o-cresol) | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |
| 2-nitrophenol | | | X | 20 | <20 | NA | NA | NA | NA | NA | ug/L | NA |
| 4-nitrophenol | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |
| 4-chloro-3-methylphenol (p-chloro-m-cresol) | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| pentachlorophenol | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE III:**

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| phenol | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 2,4,6-trichlorophenol | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| **BASE/NEUTRAL EXTRACTABLE ORGANIC CHEMICALS – EPA METHOD 625 SUGGESTED** | | | | | | | | | | | | |
| acenaphthene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| acenaphthylene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| anthracene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| benzidine | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |
| benzo(a)anthracene | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |
| benzo(a)pyrene | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |
| 3,4-benzo fluoranthene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| benzo(ghi)perylene | | | X | 20 | <20 | NA | NA | NA | NA | NA | ug/L | NA |
| benzo(k)fluoranthene | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |
| bis(2-chloroethoxy)methane | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| bis(2-chloroethyl)ether | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| bis(2-chloroisopropyl)ether | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| bis(2-ethylhexyl)phthalate | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 4-bromophenyl phenyl ether | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| butylbenzyl phthalate | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 2-chloronaphthalene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 4-chlorophenyl phenyl ether | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| chrysene | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE III:**

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| dibenzo(a,h)anthracene | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |
| 3,3'-dichlorobenzidine | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |
| diethyl phthalate | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| dimethyl phthalate | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| di-n-butyl phthalate | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 2,4-dinitrotoluene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 2,6-dinitrotoluene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| di-n-octyl phthalate | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,2-diphenylhydrazine (as azobenzene) | | | X | 20 | <20 | NA | NA | NA | NA | NA | ug/L | NA |
| fluoranthene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| fluorene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| hexachlorobenzene | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |
| hexachlorobutadiene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| hexachlorocyclopentadiene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| hexachloroethane | | | X | 20 | <20 | NA | NA | NA | NA | NA | ug/L | NA |
| indeno(1,2,3-cd)pyrene | | | X | 5 | <5 | NA | NA | NA | NA | NA | ug/L | NA |
| isophorone | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| naphthalene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| nitrobenzene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| N-nitrosodimethylamine | | | X | 50 | <50 | NA | NA | NA | NA | NA | ug/L | NA |
| N-nitrosodi-n-propylamine | | | X | 20 | <20 | NA | NA | NA | NA | NA | ug/L | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE III:**

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| N-nitrosodiphenylamine | | | X | 20 | <20 | NA | NA | NA | NA | NA | ug/L | NA |
| phenanthrene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| pyrene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| 1,2,4-trichlorobenzene | | | X | 10 | <10 | NA | NA | NA | NA | NA | ug/L | NA |
| **PESTICIDES & PCBs – EPA METHOD 608 REQUIRED** | | | | | | | | | | | | |
| aldrin | | | X | 0.01 | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor 1016 (PCB-1016) | | | X | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor 1221 (PCB-1221) | | | X | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor 1232 (PCB-1232) | | | X | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor 1242 (PCB-1242) | | | X | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor 1248 (PCB-1248) | | | X | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor 1254 (PCB-1254) | | | X | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| Aroclor 1260 (PCB-1260) | | | X | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| alpha-BHC | | | X | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA |
| beta-BHC | | | X | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA |
| delta-BHC | | | X | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA |
| gamma-BHC | | | X | 0.05 | NA | NA | NA | NA | NA | NA | NA | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE III:**

ORGANIC TOXIC POLLUTANTS IN EACH OF THE FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| chlordane | | | X | 0.2 | NA | NA | NA | NA | NA | NA | NA | NA |
| 4,4'DDT | | | X | 0.02 | NA | NA | NA | NA | NA | NA | NA | NA |
| 4,4'DDE | | | X | 0.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| 4,4'DDD | | | X | 0.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| dieldrin | | | X | 0.02 | NA | NA | NA | NA | NA | NA | NA | NA |
| alpha-endosulfan | | | X | 0.01 | NA | NA | NA | NA | NA | NA | NA | NA |
| beta-endosulfan | | | X | 0.02 | NA | NA | NA | NA | NA | NA | NA | NA |
| endosulfan sulfate | | | X | 0.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| endrin | | | X | 0.02 | NA | NA | NA | NA | NA | NA | NA | NA |
| endrin aldehyde | | | X | 0.1 | NA | NA | NA | NA | NA | NA | NA | NA |
| heptachlor | | | X | 0.01 | NA | NA | NA | NA | NA | NA | NA | NA |
| heptachlor epoxide | | | X | 0.01 | NA | NA | NA | NA | NA | NA | NA | NA |
| Toxaphene | | | X | 0.3 | NA | NA | NA | NA | NA | NA | NA | NA |

(*) Minimum Quantification Level (MQL)

# SECTION III – LABORATORY ANALYSIS

**TABLE IV:**

ADDITIONAL CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| **CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS** | | | | | | | | | | | | |
| Bromide | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Chlorine, Total Residual | | | X | --- | <0.05 | NA | NA | NA | NA | NA | mg/L | NA |
| Color | | X | | --- | 9 | NA | NA | NA | NA | NA | CU | NA |
| Fecal Coliform (cols/100ml) | | | X | --- | <10 | NA | NA | NA | NA | NA | Col/10 ml | NA |
| Fluoride | | | X | --- | <50 | NA | NA | NA | NA | NA | mg/L | NA |
| Kjeldahl Nitrogen, Total | | X | | --- | 32.0 | NA | NA | NA | NA | NA | mg/L | NA |
| Nitrate-Nitrite | | | X | --- | <0.1 | NA | NA | NA | NA | NA | mg/L | NA |
| Nitrogen, Total Organic | | X | | --- | 31.7 | NA | NA | NA | NA | NA | mg/L | NA |
| Phosphorus, Total | | X | | --- | 0.62 | NA | NA | NA | NA | NA | mg/L | NA |
| Radioactivity | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Sulfate | | X | | --- | 1,630 | NA | NA | NA | NA | NA | mg/L | NA |
| Sulfide | | | X | --- | <0.05 | NA | NA | NA | NA | NA | mg/L | NA |
| Sulfite | | X | | --- | 3.0 | NA | NA | NA | NA | NA | mg/L | NA |
| Surfactants | | X | | --- | 36.9 | NA | NA | NA | NA | NA | mg/L | NA |
| Aluminum, Total | | | X | --- | <1,250 | NA | NA | NA | NA | NA | µg/L | NA |
| Barium, Total | | X | | --- | 3,050 | NA | NA | NA | NA | NA | µg/L | NA |
| Boron, Total | | X | | --- | 2,940 | NA | NA | NA | NA | NA | µg/L | NA |

?

# SECTION III – LABORATORY ANALYSIS

**TABLE IV:**

ADDITIONAL CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ING REQ UIRE | EVE D PRE EVE | D ABSE | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| Cobalt, Total | | | X | --- | <100 | NA | NA | NA | NA | NA | µg/L | NA |
| Iron, Total | | | X | --- | <1,000 | NA | NA | NA | NA | NA | µg/L | NA |
| Magnesium, Total | | X | | --- | 218,000 | NA | NA | NA | NA | NA | µg/L | NA |
| Manganese, Total | | | X | --- | <1,000 | NA | NA | NA | NA | NA | µg/L | NA |
| Molybdenum | | | X | --- | <100 | NA | NA | NA | NA | NA | µg/L | NA |
| Tin, Total | | | X | --- | <100 | NA | NA | NA | NA | NA | µg/L | NA |
| Titanium, Total | | | X | --- | <100 | NA | NA | NA | NA | NA | µg/L | NA |

(*) Minimum Quantification Level (MQL)

?

# SECTION III – LABORATORY ANALYSIS

**TABLE V:**

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| **TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES** | | | | | | | | | | | | |
| Asbestos | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| **HAZARDOUS SUBSTANCES** | | | | | | | | | | | | |
| Acetaldehyde | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Allyl alcohol | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Allyl chloride | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Amyl acetate | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Aniline | | | X | --- | <10 | NA | NA | NA | NA | NA | µg/l | NA |
| Benzonitrile | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Benzyl chloride | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Butyl acetate | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Butylamine | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Captan | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbaryl | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbofuran | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Carbon disulfide | | | X | --- | <10 | NA | NA | NA | NA | NA | µg/l | NA |
| Chlorpyrifos | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Coumaphos | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Cresol | | | X | --- | <10 | NA | NA | NA | NA | NA | µg/l | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE V:**

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| Crotonaldehyde | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Cyclohexane | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| 2,4-D (2,4-Dichlorophenoxy acetic acid) | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Diazinon | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Dicamba | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Dichlobenil | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Dichlone | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| 2,2-Dichloropropionic acid | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Dichlorvos | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Diethyl amine | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Dimethyl Amine | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Dinitrobenzene | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Diquat | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Disulfoton | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Diuron | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Epichlorohydrin | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethion | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethylene diamine | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Ethylene dibromide | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |
| Formaldehyde | | | X | — | NA | NA | NA | NA | NA | NA | NA | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE V:**

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| Furfural | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Guthion | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Isoprene | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Isopropanolamine Dodecylbenzenesulfonate | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Kelthane | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Kepone | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Malathion | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Mercaptodimethur | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Methoxychlor | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Methyl mercaptan | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Methyl methacrylate | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Methyl parathion | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Mevinphos | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Mexacarbate | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Monoethyl amine | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Monomethyl amine | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Naled | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Napthenic acid | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Nitrotoluene | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Parathion | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE V:**

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| Phenolsulfanate | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Phosgene | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Propargite | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Propylene oxide | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Pyrethrins | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Quinoline | | | x | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Resorcinol | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Strontium | | X | | --- | 32,300 | NA | NA | NA | NA | NA | µg/L | NA |
| Strychnine | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Styrene | | | X | --- | <10 | NA | NA | NA | NA | NA | µg/L | NA |
| 2,4,5-T (2,4,5-Trichlorophenoxy acetic acid) | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| TDE (Tetrachlorodiphenylethane) | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| 2,4,5-TP[2-(2,4,5-Trichlorophenoxy) propanoic acid] | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Trichlorfon | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Triethanolamine Dodecylbenzenesulfonate | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |

# SECTION III – LABORATORY ANALYSIS

**TABLE V:**

TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES

**OUTFALL NUMBER**

**004**

[X] Grab [ ] Composite

| POLLUTANT | MARK X | | | MQL (*) µg/L | EFFLUENT ANALYSIS | | | | | | UNITS | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TESTING REQUIRED | BELIEVED PRESENT | BELIEVED ABSENT | | MAXIMUM DAILY VALUE | | MAXIMUM 30 DAY VALUE | | LONG TERM AVERAGE VALUE | | CONCEN-TRATION | MASS |
| | | | | | CONCENTRATION | MASS | CONCENTRATION | MASS | CONCENTRATION | MASS | | |
| Triethylamine | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Trimethylamine | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Uranium | | | X | --- | <500 | NA | NA | NA | NA | NA | µg/L | NA |
| Vanadium | | | X | --- | <5,000 | NA | NA | NA | NA | NA | µg/L | NA |
| Vinyl Acetate | | | X | --- | <10 | NA | NA | NA | NA | NA | µg/L | NA |
| Xylene | | | X | --- | <10 | NA | NA | NA | NA | NA | µg/L | NA |
| Xylenol | | | X | --- | NA | NA | NA | NA | NA | NA | NA | NA |
| Zirconium | | | X | --- | <30 | NA | NA | NA | NA | NA | µg/L | NA |

(*) Minimum Quantification Level (MQL)

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