



CSRS, INC.
6767 Perkins Road, Suite 200
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Exhibit I. Dow Louisiana Operations West Wastewater Infrastructure Upgrade Letter & Map

November 4, 2013

Mr. Jim Cavanaugh
Baton Rouge Area Chamber
564 Laurel Street
Baton Rouge, LA 70801

Re. Dow Site – Wastewater System Cost Estimate
CSRS Job No. 212161.007

Dear Mr. Cavanaugh:

According our research, the Dow Site located at the intersection of La Hwy. 1 and La Hwy. 1148 north of the town of Plaquemine. LA has no existing wastewater infrastructure on site.

In order to provide a wastewater treatment facility to treat 250,000 gallons per day (gpd), a wastewater treatment facility would need to be constructed on site which would discharge to the drainage lateral canal along the southern boundary of the site.

Before the individual industry discharges to the proposed treatment facility, pretreatment requirements necessitate strengths less than or equal to 200 mg/L 5-day Biological Oxygen Demand (BOD) and 200 mg/L Total Suspended Solids. After treatment at the wastewater treatment facility, treated wastewater then may be discharged to the lateral drainage canal to Bayou Grosse Tete via a wastewater line constructed from the proposed treatment facility. Expected discharge limits of BOD₅, TSS, NH₃, and Phosphorous are 10/15/1/5 mg/L, respectively. Providing service for a total capacity of 250,000 gpd would yield a peak demand of approximately 250,000 gpd with no excess capacity.

The construction cost of this new wastewater treatment facility is estimated to be \$950,000 plus \$150,000 for an effluent pump station and discharge line to the drainage canal for a total cost of \$1.1 million.

Please note that these estimates do not include engineering, rights of way acquisition, environmental impacts and permitting or operation and maintenance costs. Both plans can be executed within a reasonable timetable of 180 days or less based on preliminary engineering judgment.

An alternate method of disposing of waste water would be to connect to Dow Chemical's existing waste water system on the north side of Hwy. 1 inside of the Dow facility. This method would require negotiating an agreement with Dow to connect to their facility and several crossing agreements to cross LA Hwy. 1148, LA Hwy. 1 and the UP rail line.



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Thank you for the opportunity to assist you in this project. Should you have any questions or require additional information, feel free to contact me.

Sincerely,

CSRS, Inc.

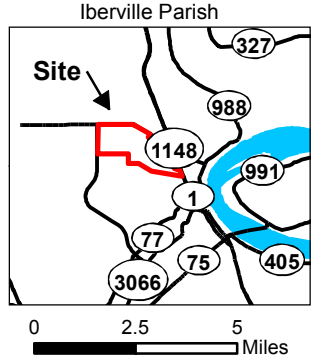
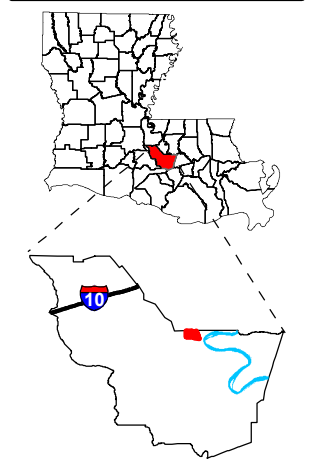
Taylor M. Gravois, PE, PLS



Exhibit I. Dow Louisiana Operations West Wastewater Infrastructure Upgrade Letter & Map

Project:
**Site Exhibit for
 Dow Site
 Iberville Parish, LA**

Client:
BRAC



- Legend:**
- LA Highway
 - Local Roads
 - Railroad
 - Proposed Wastewater Treatment Plant
 - Dow Site
 - Parish Boundary



Source:
 GIS features acquired from public domain state and federal data sources (LDOTD, GNIS, LOSCO, US Census Bureau).

Date:	11/4/2013
Project Number:	212161.20.007
Drawn By:	JES
Checked By:	TMG

- General Notes:**
- Pipeline information obtained from the National Pipeline Mapping System website (<http://www.npms.phmsa.dot.gov>), Louisiana One Call and the individual pipeline operators
 - Exact field location has not been determined. The lines shown are an approximate representation only.
 - Product types in individual lines can vary the products represented here were current as of the publication of this exhibit, but may change depending on the demands and requirements of their systems.



P:\212161\Sites Under Contract\007-DOW-Iberville-990\Maps and Drawings\DowWasteWater.mxd

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community